

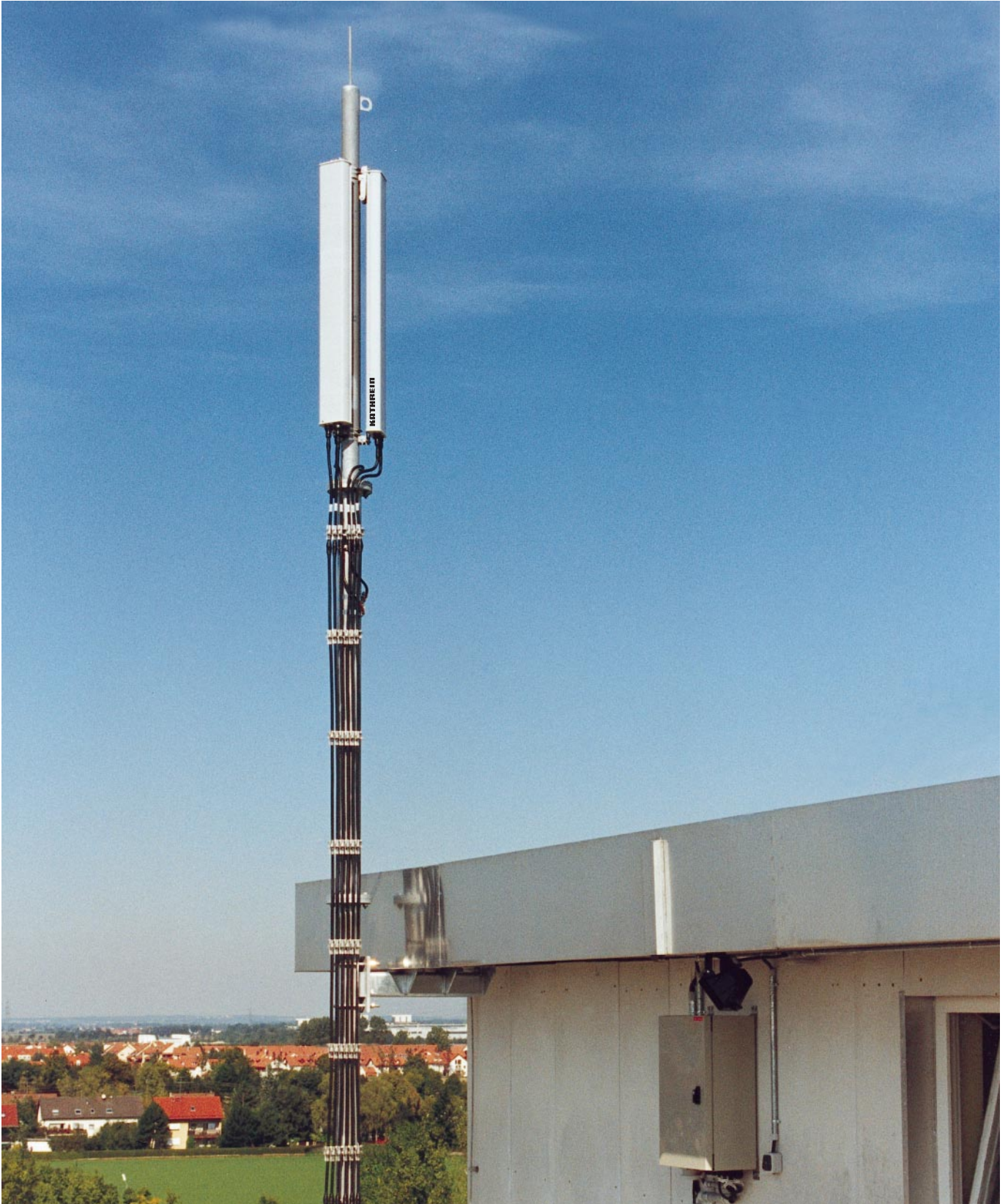


www.verdinrete.it/ondakiller

Catalogo delle antenne costruite dalla Kathrein



790 – 3800 MHz Base Station Antennas for Mobile Communications



The articles are listed by type number in numerical order.

Type No.	Page	Type No.	Page	Type No.	Page	Type No.	Page
728 ...		732 690	42	735 908	47	736 901	77
728 684	125	732 691	40			736 902	78
728 685	124	732 692	53	736 ...		736 904	78
		732 967	48	736 016	102	736 935	153
729 ...				736 018	103		
729 931	130	733 ...		736 077	57	737 ...	
		733 677	173	736 078	58	737 031	152
730 ...		733 678	173	736 347	139	737 190	145
730 360	38	733 679	173	736 348	139	737 303	163
730 362	46	733 680	173	736 349	142	737 304	163
730 366	51	733 695	124 ...	736 350	137	737 305	163
730 368	40	733 736	124 ...	736 351	137	737 306	163
730 370	47			736 352	141	737 307	163
730 372	50	734 ...		736 361	154	737 308	163
730 374	52	734 304	99	736 421	111	737 377	80
730 376	44	734 306	99	736 422	111	737 378	80
730 378	49	734 308	100	736 432	112	737 379	81
730 380	50	734 310	100	736 434	113	737 381	81
730 382	55	734 312	101	736 436	113	737 383	82
730 676	38	734 314	102	736 618	55	737 385	53
730 677	38	734 316	103	736 622	68	737 398	185
730 678	46	734 318	104	736 623	69	737 402	146
730 682	51	734 320	104	736 624	151	737 547	43
730 685	39	734 322	105	736 668	69	737 548	45
730 690	52	734 324	105	736 801	161 ...	737 549	49
730 691	41	734 326	106	736 802	161 ...	737 735	41
		734 328	106	736 803	161 ...	737 849	79
731 ...		734 330	107	736 804	161 ...	737 906	56
731 651	173	734 334	108	736 805	161 ...	737 950	101
		734 338	108	736 808	54	737 965	165
732 ...		734 342	109	736 854	68	737 966	165
732 317	181	734 360	179	736 855	68	737 967	165
732 318	181	734 361	179	736 858	70	737 971	175
732 319	182	734 362	179	736 859	70	737 972	174 ...
732 321	181	734 363	179	736 863	71	737 973	174 ...
732 322	181	734 364	179	736 864	71	737 974	174 ...
732 327	181	734 365	179	736 866	72	737 975	174 ...
732 329	96	734 688	44	736 867	72	737 976	175
732 340	110			736 870	73	737 978	174 ...
732 344	110	735 ...		736 871	73		
732 433	44	735 141	102	736 873	74	738 ...	
732 447	38	735 147	103	736 874	74	738 018	59
732 448	40	735 700	183	736 878	75	738 020	85
732 480	47	735 727	123	736 879	75	738 021	85
732 507	47	735 810	39	736 881	76	738 140	86
732 689	45	735 811	42	736 900	77	738 141	86

Summary of types

The articles are listed by type number in numerical order.

Type No.	Page	Type No.	Page	Type No.	Page	Type No.	Page
738 142	88	739 496	92	741 336	32	K 63 57 81	162
738 143	88	739 619	13	741 344	33		
738 144	87	739 620	13	741 444	91	K 72 ...	
738 145	87	739 622	14	741 445	92	K 72 23 67	128
738 161	114	739 623	15	741 571	156		
738 162	114	739 624	17	741 572	156	K 73 ...	
738 163	115	739 630	17	741 619	45	K 73 22 67	127
738 164	116	739 632	14	741 620	49	K 73 45 64 7	126
738 165	117	739 633	15	741 622	16		
738 166	117	739 634	16	741 627	119	K 75 ...	
738 167	118	739 635	17	741 628	119	K 75 11 61	135
738 168	118	739 636	18	741 629	120	K 75 11 67	135
738 173	115	739 646	19	741 630	120	K 75 15 64 1	136
738 174	116	739 648	20	741 697	147	K 75 15 64 7	136
738 187	144	739 649	21	741 717	12		
738 192	138	739 650	22	741 718	12		
738 406	39	739 651	19				
738 407	41	739 655	21	K 61 ...			
738 440	184	739 658	20	K 61 14 02	123		
738 444	131	739 660	22	K 61 14 03	123 ...		
738 450	157	739 662	23	K 61 14 04	123 ...		
738 451	157	739 695	93	K 61 14 05	123 ...		
738 546	173 ...	739 698	93	K 61 33 5	185		
738 573	155	739 707	94	K 61 33 6	185		
738 580	83	739 710	95				
738 664	142	739 714	106	K 63 ...			
738 779	140	739 715	107	K 63 20 62 1	161		
738 811	50	739 752	146	K 63 20 62 7	161		
738 812	52	739 785	143	K 63 20 63 1	161		
738 813	55	739 854	43	K 63 20 63 7	161		
		739 856	54	K 63 20 64 1	161		
739 ...		739 927	89	K 63 20 64 7	161		
739 099	132	739 990	129	K 63 22 62 1	164		
739 129	96			K 63 22 63 1	164		
739 131	97	741 ...		K 63 22 64 1	164		
739 132	97	741 067	48	K 63 23 60 61	166		
739 134	98	741 214	94	K 63 23 60 67	167		
739 136	98	741 264	90	K 63 23 61 01	166		
739 303	84	741 316	24	K 63 23 61 07	167		
739 304	84	741 320	26	K 63 23 61 51	166		
739 404	144	741 322	28	K 63 23 61 57	167		
739 418	49	741 324	30	K 63 55 8	162		
739 490	90	741 325	25	K 63 55 81	162		
739 491	90	741 326	27	K 63 56 8	162		
739 494	91	741 327	29	K 63 56 81	162		
739 495	91	741 328	31	K 63 57 8	162		

Eurocell A-Panels

The Advanced Antenna Technology for Cross Polarization

KATHREIN

Antennen · Electronic

Compact design

Small size and elegant design characterize this new antenna family.

Closed fiberglass housing

The fiberglass housing totally covers the internal antenna components. The special design reduces the sealing areas to a minimum and guarantees the best weather protection.

Environmental influences

The design of Kathrein antennas is based on fundamental engineering knowledge and also on decades of practical experience, during which the various constructions and materials used have proved their outstanding reliability.

Environmental conditions

Kathrein cellular antennas are designed to operate under the environmental conditions as described in ETS 300 019-1-4 class 4.1 E. The antennas exceed this standard with regard to the following items:

- Low temperature: – 55 °C
- High temperature (dry): + 60 °C

Environmental tests

Kathrein antennas have passed environmental tests as recommended in ETS 300 019-2-4. The homogenous design of Kathrein's antenna families use identical modules and materials. Extensive tests have been performed on typical samples and modules.

Long service life

According to our own experience, the outstanding mechanical characteristics of Kathrein antennas result in an antenna service life of over 15 years.

65° and 90° half-power beam width

Large variety of gain values Electrical downtilt

The customer can choose from 65° and 90° half-power beam widths. Gain values from 9 dBi up to 18 dBi, and electrical downtilts of up to 12° are available.

Low intermodulation products (typically -150 dBc)

After many years of experience in the construction of antennas and after intensive research into the effects of intermodulation, we have been able to optimize the material used for Eurocell A-Panels (the given value refers to 3rd order products measured with 2 carriers of 20 W each).

Broadband design

These antennas primarily cover the frequency range from 806 to 960 MHz and are suitable for GSM, NMT, TACS, AMPS, CDMA cellular networks. Therefore the variety of antennas used can be kept to a minimum.

Excellent grounding

The Eurocell A-Panels are DC grounded according EN 50083-1. The inner conductors are DC grounded.

Multi-functional installation hardware

All models are equipped with 2 fixing points. The Eurocell A-Panels can be wall mounted without any additional hardware. For mast mounting, stainless steel brackets and mechanical downtilt kits are available. To assist the installation technicians in aligning the antennas, an azimuth adjustment tool can be supplied (see Accessories).



Dual-Polarization: +45°/-45°

Type	Type No.	Frequency range	Height	Connector position	Page
XPol A-Panel 900 30° 15.5 dBi	741 717	870 – 960 MHz	656 mm	bottom	12
XPol A-Panel 900 30° 18.5 dBi	741 718	870 – 960 MHz	1296 mm	bottom	12
XPol A-Panel 800/900 65° 9 dBi	739 619	806 – 960 MHz	256 mm	bottom or top	13
XPol A-Panel 800/900 65° 12.5 dBi	739 620	806 – 960 MHz	656 mm	bottom or top	13
XPol A-Panel 800/900 65° 15.5 dBi	739 622	806 – 960 MHz	1296 mm	bottom or top	14
XPol A-Panel 800/900 65° 15 dBi 6°T	739 632	806 – 960 MHz	1296 mm	bottom	14
XPol A-Panel 800/900 65° 15 dBi 12°T	739 633	806 – 960 MHz	1296 mm	bottom	15
XPol A-Panel 800/900 65° 17 dBi	739 623	806 – 960 MHz	1936 mm	bottom or top	15
XPol A-Panel 800/900 65° 17 dBi 6°T	739 634	806 – 960 MHz	1936 mm	bottom	16
XPol A-Panel 800/900 65° 17 dBi 9°T	741 622	806 – 960 MHz	1936 mm	bottom	16
XPol A-Panel 900 65° 17 dBi 6°T	739 635	880 – 960 MHz	2256 mm	bottom	17
XPol A-Panel 900 65° 18 dBi	739 630	870 – 960 MHz	2580 mm	bottom	17
XPol A-Panel 800/900 65° 18 dBi	739 624	806 – 960 MHz	2580 mm	bottom	17
XPol A-Panel 800/900 65° 18 dBi 6°T	739 636	806 – 960 MHz	2580 mm	bottom	18
XPol A-Panel 900 90° 7.5 dBi	739 651	870 – 960 MHz	256 mm	bottom or top	19
XPol A-Panel 800/900 90° 11 dBi	739 646	806 – 960 MHz	656 mm	bottom or top	19
XPol A-Panel 800/900 90° 13.5 dBi	739 648	806 – 960 MHz	1296 mm	bottom or top	20
XPol A-Panel 800/900 90° 13.5 dBi 6°T	739 658	806 – 960 MHz	1296 mm	bottom	20
XPol A-Panel 900 90° 15.5 dBi	739 655	870 – 960 MHz	1936 mm	bottom or top	21
XPol A-Panel 800/900 90° 15.5 dBi	739 649	806 – 960 MHz	1936 mm	bottom or top	21
XPol A-Panel 800/900 90° 15.5 dBi 6°T	739 660	806 – 960 MHz	1936 mm	bottom	22
XPol A-Panel 800/900 90° 17 dBi	739 650	806 – 960 MHz	2580 mm	bottom or top	22
XPol A-Panel 800/900 90° 17 dBi 6°T	739 662	806 – 960 MHz	2580 mm	bottom	23

Dual-Band GSM 900 / GSM 1800 – Dual-Polarization: +45°/-45°

Type	Type No.	Frequency range	Height	Page
XXPol A-Panel 900/1800 C 65/65° 12.5/13 dBi	741 316	870–960 / 1710–1880 MHz	656 mm	24
XXPol A-Panel 900/1800 65/65° 12.5/13.5 dBi	741 325	870–960 / 1710–1880 MHz	656 mm	25
XXPol A-Panel 900/1800 C 65/60° 15/16.5 dBi	741 320	870–960 / 1710–1880 MHz	1296 mm	26
XXPol A-Panel 900/1800 65/60° 15/17 dBi	741 326	870–960 / 1710–1880 MHz	1296 mm	27
XXPol A-Panel 900/1800 C 65/60° 17/18 dBi	741 322	870–960 / 1710–1880 MHz	1936 mm	28
XXPol A-Panel 900/1800 65/60° 17/18.5 dBi	741 327	870–960 / 1710–1880 MHz	1936 mm	29
XXPol A-Panel 900/1800 C 65/60° 18/19 dBi	741 324	870–960 / 1710–1880 MHz	2580 mm	30
XXPol A-Panel 900/1800 65/60° 18/19.5 dBi	741 328	870–960 / 1710–1880 MHz	2580 mm	31
XXPol A-Panel 900/1800 C 65/60° 17.5/17.5 dBi 6°T	741 336	870–960 / 1710–1880 MHz	2580 mm	32
XXPol A-Panel 900/1800 65/60° 17.5/18 dBi 6°T	741 344	870–960 / 1710–1880 MHz	2580 mm	33

Connector position: Bottom

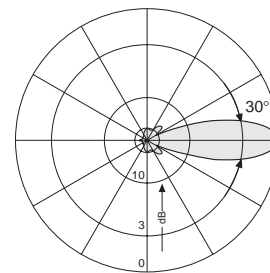
Eurocell A-Panels GSM 900 – Dual Polarization

+45°/-45° Polarization

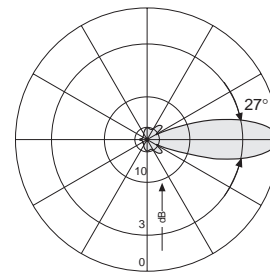
30° Half-power Beam Width

XPol A-Panel 900 30° 15.5dBi

Type No.	741 717
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.5
Gain	2 x 15.5 dBi
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 30 dB
Half-power beam width	+45° polarization Horizontal: 30°, vertical: 27° -45° polarization Horizontal: 30°, vertical: 27°
Isolation	> 30 dB
Max. power per input	500 Watt (at 50 °C ambient temperature)
Weight	13 kg
Wind load	Frontal: 330 N (at 150 km/h) Lateral: 60 N (at 150 km/h) Rearside: 470 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	approx. 720 x 577 x 225 mm
Height/width/depth	656 / 560 / 116 mm



Horizontal Pattern

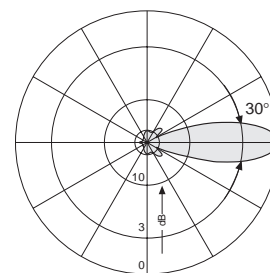


Vertical Pattern

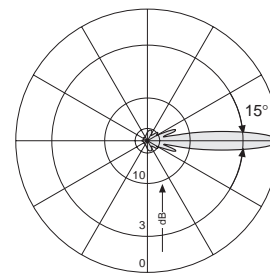


XPol A-Panel 900 30° 18.5dBi

Type No.	741 718
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.5
Gain	2 x 18.5 dBi
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 30 dB
Half-power beam width	+45° polarization Horizontal: 30°, vertical: 15° -45° polarization Horizontal: 30°, vertical: 15°
Isolation	> 30 dB
Max. power per input	500 Watt (at 50 °C ambient temperature)
Weight	20 kg
Wind load	Frontal: 680 N (at 150 km/h) Lateral: 130 N (at 150 km/h) Rearside: 970 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	approx. 1360 x 577 x 225 mm
Height/width/depth	1296 / 560 / 116 mm



Horizontal Pattern



Vertical Pattern



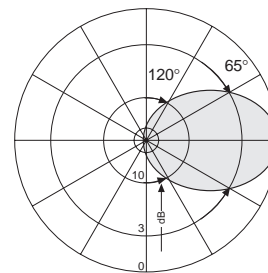
Eurocell A-Panels GSM 900 – Dual Polarization

+45°/-45° Polarization

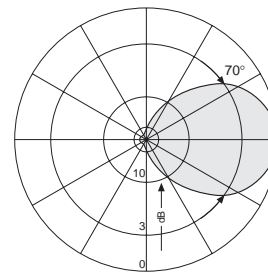
65° Half-power Beam Width

XPol A-Panel 800/900 65° 9dBi

Type No.	739 619
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	806 – 960 MHz
VSWR	< 1.5
Gain	2 x 9 dBi (870 – 960 MHz) 2 x 8.5 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 25 dB
Half-power beam width	+45° polarization Horizontal: 65°, vertical: 70° -45° polarization Horizontal: 65°, vertical: 70°
Isolation	> 30 dB
Max. power per input	350 Watt (at 50 °C ambient temperature)
Weight	3 kg
Wind load	Frontal: 40 N (at 150 km/h) Lateral: 25 N (at 150 km/h) Rearside: 90 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	377 x 287 x 165 mm
Height/width/depth	256 / 262 / 116 mm



Horizontal Pattern

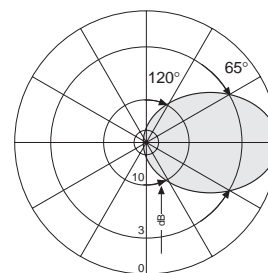


Vertical Pattern

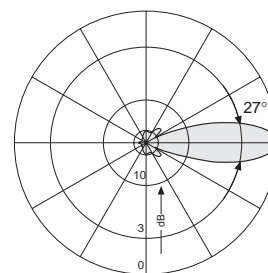


XPol A-Panel 800/900 65° 12.5dBi

Type No.	739 620
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	806 – 960 MHz
VSWR	< 1.5
Gain	2 x 12.5 dBi (870 – 960 MHz) 2 x 12 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 30 dB
Half-power beam width	+45° polarization Horizontal: 65°, vertical: 27° -45° polarization Horizontal: 65°, vertical: 27°
Isolation	> 30 dB
Max. power per input	500 Watt (at 50 °C ambient temperature)
Weight	6 kg
Wind load	Frontal: 110 N (at 150 km/h) Lateral: 60 N (at 150 km/h) Rearside: 240 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	782 x 287 x 165 mm
Height/width/depth	656 / 262 / 116 mm



Horizontal Pattern



Vertical Pattern



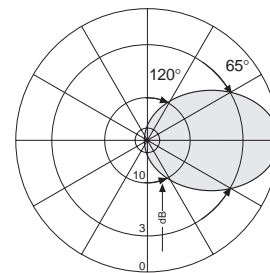
Eurocell A-Panels GSM 900 – Dual Polarization

+45°/-45° Polarization

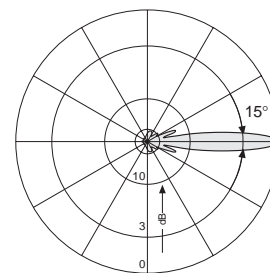
65° Half-power Beam Width

XPoL A-Panel 800/900 65° 15.5dBi

Type No.	739 622
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	806 – 960 MHz
VSWR	< 1.5
Gain	2 x 15.5 dBi (870 – 960 MHz) 2 x 15 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 30 dB
Half-power beam width	+45° polarization Horizontal: 65°, vertical: 15° -45° polarization Horizontal: 65°, vertical: 15°
Isolation	> 30 dB
Max. power per input	600 Watt (at 50 °C ambient temperature)
Weight	10 kg
Wind load	Frontal: 230 N (at 150 km/h) Lateral: 130 N (at 150 km/h) Rearside: 500 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 287 x 165 mm
Height/width/depth	1296 / 262 / 116 mm



Horizontal Pattern

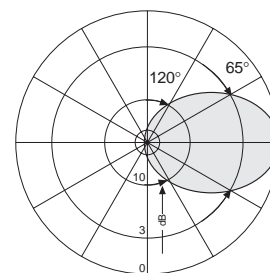


Vertical Pattern

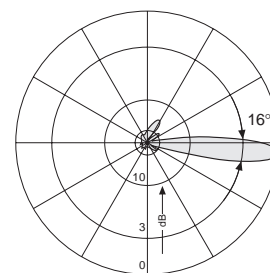


XPoL A-Panel 800/900 65° 15dBi 6°T

Type No.	739 632
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	806 – 960 MHz
VSWR	< 1.3 (870 – 960 MHz) < 1.5 (806 – 870 MHz)
Gain	2 x 15 dBi (870 – 960 MHz) 2 x 14.5 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 30 dB
Half-power beam width	+45° polarization Horizontal: 65°, vertical: 16°, 6°T -45° polarization Horizontal: 65°, vertical: 16°, 6°T
Isolation	> 32 dB (824 – 960 MHz) > 30 dB (806 – 824 MHz)
Max. power per input	600 Watt (at 50 °C ambient temperature)
Weight	8 kg
Wind load	Frontal: 230 N (at 150 km/h) Lateral: 130 N (at 150 km/h) Rearside: 500 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 287 x 165 mm
Height/width/depth	1296 / 262 / 116 mm



Horizontal Pattern



Vertical Pattern

- 6° electr. downtilt
- typical sidelobe suppression above horizon for first and second sidelobe:
 - ≥ 16 dB (824 – 960 MHz)
 - ≥ 14 dB (806 – 824 MHz) below max. gain.



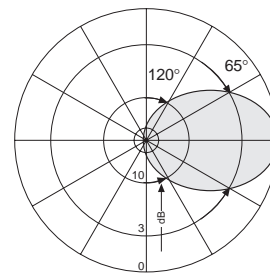
Eurocell A-Panels GSM 900 – Dual Polarization

+45°/-45° Polarization

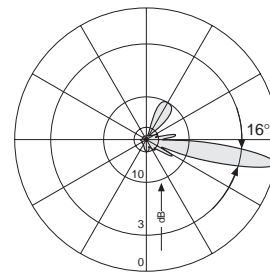
65° Half-power Beam Width

XPol A-Panel 800/900 65° 15dBi 12°T

Type No.	739 633
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	806 – 960 MHz
VSWR	< 1.3 (870 – 960 MHz) < 1.5 (806 – 870 MHz)
Gain	2 x 15 dBi (870 – 960 MHz) 2 x 14.5 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 30 dB
Half-power beam width	+45° polarization Horizontal: 65°, vertical: 16°, 12°T -45° polarization Horizontal: 65°, vertical: 16°, 12°T
Isolation	> 30 dB
Max. power per input	600 Watt (at 50 °C ambient temperature)
Weight	8 kg
Wind load	Frontal: 230 N (at 150 km/h) Lateral: 130 N (at 150 km/h) Rearside: 500 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 287 x 165 mm
Height/width/depth	1296 / 262 / 116 mm



Horizontal Pattern



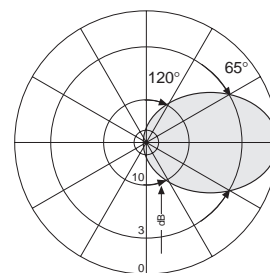
Vertical Pattern

- 12° electr. downtilt
- typical sidelobe suppression above horizon for first sidelobe ≥ 16 dB (824 – 960 MHz) below max. gain.

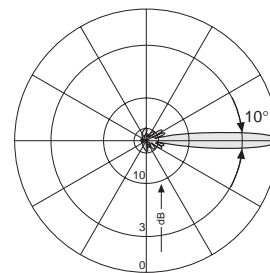


XPol A-Panel 800/900 65° 17dBi

Type No.	739 623
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	806 – 960 MHz
VSWR	< 1.5
Gain	2 x 17 dBi (870 – 960 MHz) 2 x 16.5 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 30 dB
Half-power beam width	45° polarization Horizontal: 65°, vertical: 10° -45° polarization Horizontal: 65°, vertical: 10°
Isolation	> 30 dB (806 – 824 MHz)
Max. power per input	600 Watt (at 50 °C ambient temperature)
Weight	12 kg
Wind load	Frontal: 330 N (at 150 km/h) Lateral: 200 N (at 150 km/h) Rearside: 770 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2057 x 287 x 165 mm
Height/width/depth	1936 / 262 / 116 mm



Horizontal Pattern



Vertical Pattern

- first nullfill below horizon better or equal -25 dB below maximum gain
- typical sidelobe suppression above horizon better or equal 15 dB below max. gain.

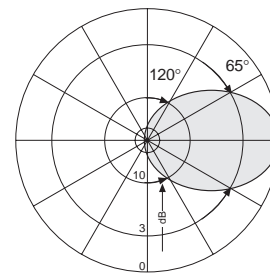
Eurocell A-Panels GSM 900 – Dual Polarization

+45°/-45° Polarization

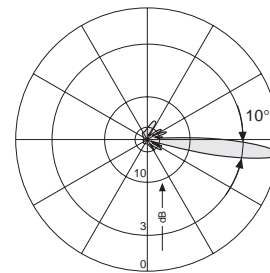
65° Half-power Beam Width

XPol A-Panel 800/900 65° 17dBi 6°T

Type No.	739 634
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	806 – 960 MHz
VSWR	< 1.3 (870 – 960 MHz) < 1.5 (806 – 870 MHz)
Gain	2 x 17 dBi (870 – 960 MHz) 2 x 16.5 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 30 dB
Half-power beam width	45° polarization Horizontal: 65°, vertical: 10°, 6°T -45° polarization Horizontal: 65°, vertical: 10°, 6°T
Isolation	> 32 dB (824 – 960 MHz) > 30 dB (806 – 824 MHz)
Max. power per input	600 Watt (at 50 °C ambient temperature)
Weight	12 kg
Wind load	Frontal: 330 N (at 150 km/h) Lateral: 200 N (at 150 km/h) Rearside: 770 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2057 x 287 x 165 mm
Height/width/depth	1936 / 262 / 116 mm



Horizontal Pattern



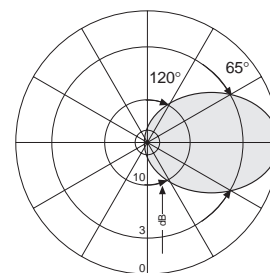
Vertical Pattern

- 6° electr. downtilt
- typical sidelobe suppression above horizon for first sidelobe:
≥ 18 dB (870 – 960 MHz)
≥ 14 dB (806 – 870 MHz)
below max. gain.

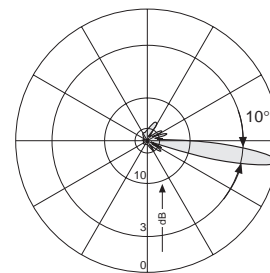


XPol A-Panel 800/900 65° 17dBi 9°T

Type No.	741 622
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	824 – 960 MHz
VSWR	< 1.3 (870 – 960 MHz) < 1.5 (824 – 870 MHz)
Gain	2 x 17 dBi (870 – 960 MHz) 2 x 16.5 dBi (824 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 30 dB
Half-power beam width	45° polarization Horizontal: 65°, vertical: 10°, 9°T -45° polarization Horizontal: 65°, vertical: 10°, 9°T
Isolation	> 32 dB (824 – 960 MHz)
Max. power per input	500 Watt (at 50 °C ambient temperature)
Weight	12 kg
Wind load	Frontal: 330 N (at 150 km/h) Lateral: 200 N (at 150 km/h) Rearside: 770 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2062 x 287 x 165 mm
Height/width/depth	1936 / 262 / 116 mm



Horizontal Pattern



Vertical Pattern

- 9° electr. downtilt
- typical sidelobe suppression above horizon for first sidelobe:
≥ 16 dB (870 – 960 MHz)
≥ 14 dB (824 – 870 MHz)
below max. gain.

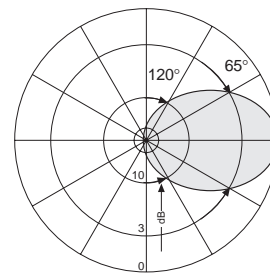
Eurocell A-Panels GSM 900 – Dual Polarization

+45°/-45° Polarization

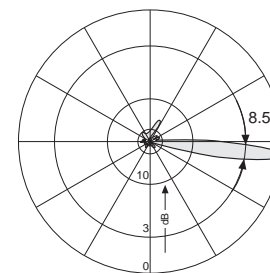
65° Half-power Beam Width

XPol A-Panel 900 65° 17dBi 6°T High sidelobe suppression

Type No.	739 635
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	880 – 960 MHz
VSWR	< 1.3
Gain	2 x 17 dBi
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 30 dB
Half-power beam width	+45° polarization Horizontal: 65°, vertical: 8.5°, 6°T -45° polarization Horizontal: 65°, vertical: 8.5°, 6°T
Isolation	> 32 dB
Max. power	250 Watt (at 50 °C ambient temperature)
Weight	16 kg
Wind load	Frontal: 400 N (at 150 km/h) Lateral: 240 N (at 150 km/h) Rearside: 910 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2692 x 287 x 165 mm
Height/width/depth	2256 / 262 / 116 mm



Horizontal Pattern



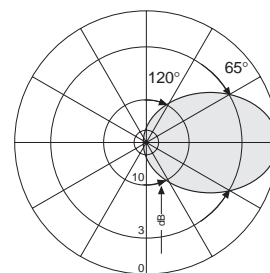
Vertical Pattern

- 6° electr. downtilt
- typical sidelobe suppression above horizon (0° – 40°) better 20 dB below maximum gain.

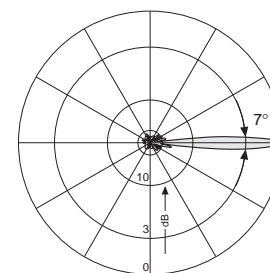


XPol A-Panel 800/900 65° 18dBi

Type No.	739 630	739 624
Input	2 x 7-16 female	
Connector position	Bottom or top	
Frequency range	870 – 960 MHz	806 – 960 MHz
VSWR	< 1.3	< 1.5
Gain	2 x 18 dBi	
Impedance	50 Ω	
Polarization	+45°, -45°	
Front-to-back-ratio, copolar	> 30 dB	
Half-power beam width	+45° polarization Horizontal: 65°, vertical: 7° -45° polarization Horizontal: 65°, vertical: 7°	
Isolation	> 32 dB	> 32 dB (824 – 960 MHz) > 30 dB (806 – 824 MHz)
Max. power per input	600 Watt (at 50 °C ambient temperature)	
Weight	19 kg	
Wind load	Frontal: 470 N (at 150 km/h) Lateral: 280 N (at 150 km/h) Rearside: 1040 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2692 x 287 x 165 mm	
Height/width/depth	2580 / 262 / 116 mm	



Horizontal Pattern



Vertical Pattern

- first nullfill below horizon better or equal -25 dB below maximum gain
- typical sidelobe suppression above horizon better or equal 15 dB below max. gain

Eurocell A-Panels GSM 900 – Dual Polarization

+45°/-45° Polarization

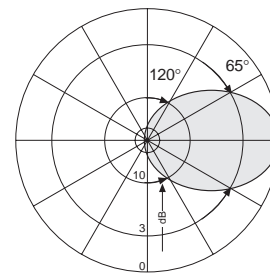
65° Half-power Beam Width

KATHREIN

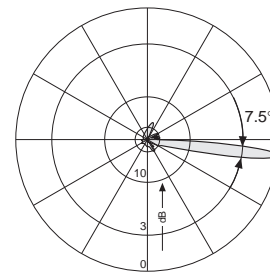
Antennen · Electronic

XPol A-Panel 800/900 65° 18dBi 6°T

Type No.	739 636
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	806 – 960 MHz
VSWR	< 1.3 (870 – 960 MHz) < 1.5 (806 – 870 MHz)
Gain	2 x 18 dBi (870 – 960 MHz) 2 x 17.5 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 30 dB
Half-power beam width	+45° polarization Horizontal: 65°, vertical: 7.5°, 6°T -45° polarization Horizontal: 65°, vertical: 7.5°, 6°T
Isolation	> 32 dB (824 – 960 MHz) > 30 dB (806 – 824 MHz)
Max. power per input	600 Watt (at 50 °C ambient temperature)
Weight	19 kg
Wind load	Frontal: 470 N (at 150 km/h) Lateral: 280 N (at 150 km/h) Rearside: 1040 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2692 x 287 x 165 mm
Height/width/depth	2580 / 262 / 116 mm



Horizontal Pattern



Vertical Pattern

- 6° electr. downtilt
- typical sidelobe suppression above horizon for first and second sidelobe better 18 dB below max. gain.



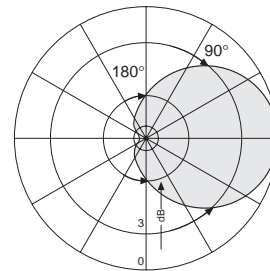
Eurocell A-Panels GSM 900 – Dual Polarization

+45°/-45° Polarization

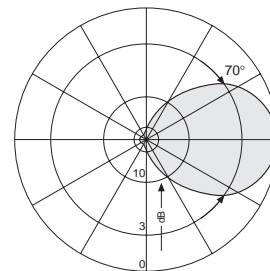
90° Half-power Beam Width

XPol A-Panel 900 90° 7.5dBi

Type No.	739 651
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	2 x 7.5 dBi
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 20 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 70° -45° polarization Horizontal: 90°, vertical: 70°
Isolation	> 30 dB
Max. power per input	300 Watt (at 50 °C ambient temperature)
Weight	3 kg
Wind load	Frontal: 40 N (at 150 km/h) Lateral: 25 N (at 150 km/h) Rearside: 90 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	377 x 287 x 165 mm
Height/width/depth	256 / 262 / 116 mm



Horizontal Pattern

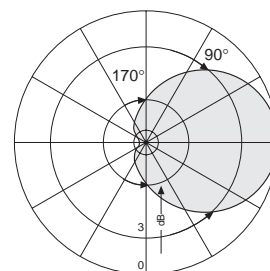


Vertical Pattern

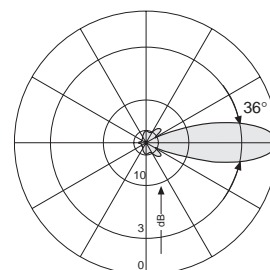


XPol A-Panel 800/900 90° 11dBi

Type No.	739 646
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	806 – 960 MHz
VSWR	< 1.5
Gain	2 x 11 dBi (870 – 960 MHz) 2 x 10.5 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 25 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 36° -45° polarization Horizontal: 90°, vertical: 36°
Isolation	> 30 dB
Max. power per input	500 Watt (at 50 °C ambient temperature)
Weight	6 kg
Wind load	Frontal: 110 N (at 150 km/h) Lateral: 60 N (at 150 km/h) Rearside: 240 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	782 x 287 x 165 mm
Height/width/depth	656 / 262 / 116 mm



Horizontal Pattern



Vertical Pattern



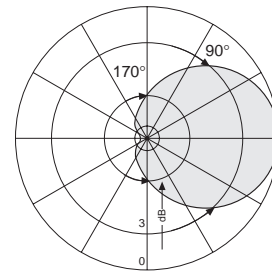
Eurocell A-Panels GSM 900 – Dual Polarization

+45°/-45° Polarization

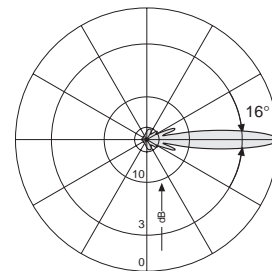
90° Half-power Beam Width

XPol A-Panel 800/900 90° 13.5dBi

Type No.	739 648
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	806 – 960 MHz
VSWR	< 1.5
Gain	2 x 13.5 dBi (870 – 960 MHz) 2 x 13 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 25 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 16° -45° polarization Horizontal: 90°, vertical: 16°
Isolation	> 32 dB
Max. power per input	600 Watt (at 50 °C ambient temperature)
Weight	8 kg
Wind load	Frontal: 230 N (at 150 km/h) Lateral: 130 N (at 150 km/h) Rearside: 500 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 287 x 165 mm
Height/width/depth	1296 / 262 / 116 mm



Horizontal Pattern



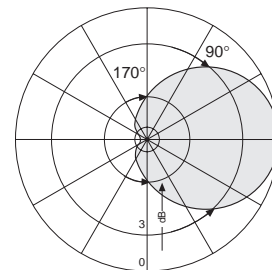
Vertical Pattern

– typical sidelobe suppression above horizon better 16 dB below max. gain.

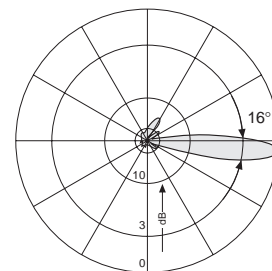


XPol A-Panel 800/900 90° 13.5dBi 6°T

Type No.	739 658
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	806 – 960 MHz
VSWR	< 1.3 (870 – 960 MHz) < 1.5 (806 – 870 MHz)
Gain	2 x 13.5 dBi (870 – 960 MHz) 2 x 13 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 25 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 16°, 6°T -45° polarization Horizontal: 90°, vertical: 16°, 6°T
Isolation	> 30 dB
Max. power per input	500 Watt (at 50 °C ambient temperature)
Weight	8 kg
Wind load	Frontal: 230 N (at 150 km/h) Lateral: 130 N (at 150 km/h) Rearside: 500 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 287 x 165 mm
Height/width/depth	1296 / 262 / 116 mm



Horizontal Pattern



Vertical Pattern

– 6° electr. downtilt
– typical sidelobe suppression above horizon for first sidelobe better 15 dB below max. gain.



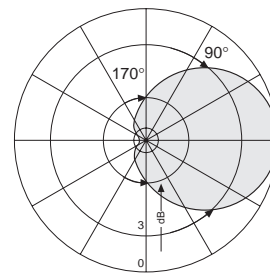
Eurocell A-Panels GSM 900 – Dual Polarization

+45°/-45° Polarization

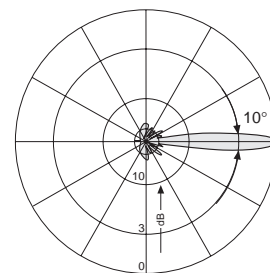
90° Half-power Beam Width

XPol A-Panel 900 90° 15.5dBi

Type No.	739 655
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	2 x 15.5 dBi
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 25 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 10° -45° polarization Horizontal: 90°, vertical: 10°
Isolation	> 32 dB
Max. power per input	600 Watt (at 50 °C ambient temperature)
Weight	14 kg
Wind load	Frontal: 330 N (at 150 km/h) Lateral: 200 N (at 150 km/h) Rearside: 770 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2057 x 287 x 165 mm
Height/width/depth	1936 / 262 / 116 mm



Horizontal Pattern



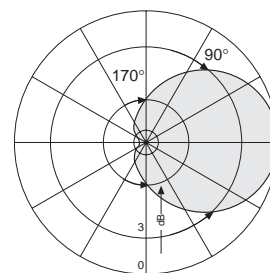
Vertical Pattern

- first nullfill below horizon better or equal -25 dB below maximum gain
- typical sidelobe suppression above horizon better 15 dB below max. gain.

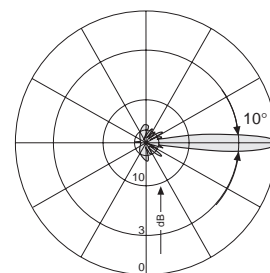


XPol A-Panel 800/900 90° 15.5dBi

Type No.	739 649
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	806 – 960 MHz
VSWR	< 1.5
Gain	2 x 15.5 dBi (870 – 960 MHz) 2 x 15 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 25 dB
Half-power beam width	45° polarization Horizontal: 90°, vertical: 10° -45° polarization Horizontal: 90°, vertical: 10°
Isolation	> 32 dB
Max. power per input	600 Watt (at 50 °C ambient temperature)
Weight	12 kg
Wind load	Frontal: 330 N (at 150 km/h) Lateral: 200 N (at 150 km/h) Rearside: 770 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2057 x 287 x 165 mm
Height/width/depth	1936 / 262 / 116 mm



Horizontal Pattern



Vertical Pattern

- first nullfill below horizon better or equal -25 dB below maximum gain.
- typical sidelobe suppression above horizon better 14 dB below max. gain.

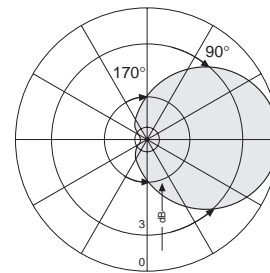
Eurocell A-Panels GSM 900 – Dual Polarization

+45°/-45° Polarization

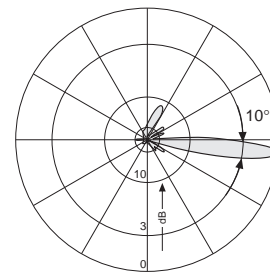
90° Half-power Beam Width

XPol A-Panel 800/900 90° 15.5dBi 6°T

Type No.	739 660
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	806 – 960 MHz
VSWR	< 1.3 (870 – 960 MHz) < 1.5 (806 – 870 MHz)
Gain	2 x 15.5 dBi (870 – 960 MHz) 2 x 15 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 25 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 10°, 6°T -45° polarization Horizontal: 90°, vertical: 10°, 6°T
Isolation	> 32 dB
Max. power per input	600 Watt (at 50 °C ambient temperature)
Weight	14 kg
Wind load	Frontal: 330 N (at 150 km/h) Lateral: 200 N (at 150 km/h) Rearside: 770 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2057 x 287 x 165 mm
Height/width/depth	1936 / 262 / 116 mm



Horizontal Pattern



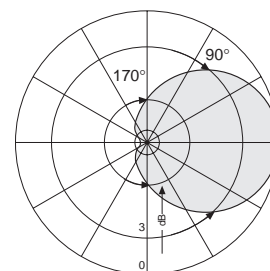
Vertical Pattern

- 6° electr. downtilt
- typical sidelobe suppression above horizon for first and second sidelobe better 16 dB below max. gain.

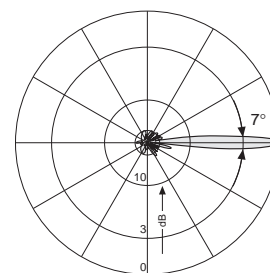


XPol A-Panel 800/900 90° 17dBi

Type No.	739 650
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	806 – 960 MHz
VSWR	< 1.5
Gain	2 x 17 dBi (870 – 960 MHz) 2 x 16.5 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 25 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 7° -45° polarization Horizontal: 90°, vertical: 7°
Isolation	> 32 dB
Max. power per input	600 Watt (at 50 °C ambient temperature)
Weight	19 kg
Wind load	Frontal: 470 N (at 150 km/h) Lateral: 280 N (at 150 km/h) Rearside: 1040 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2692 x 287 x 165 mm
Height/width/depth	2580 / 262 / 116 mm



Horizontal Pattern



Vertical Pattern

- first nullfill below horizon better or equal 25 dB below maximum gain
- typical sidelobe suppression above horizon better or equal 15 dB below max. gain

Eurocell A-Panels GSM 900 – Dual Polarization

+45°/-45° Polarization

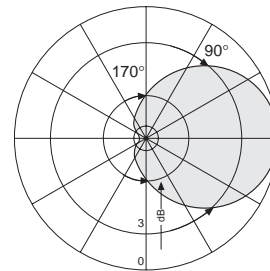
90° Half-power Beam Width

KATHREIN

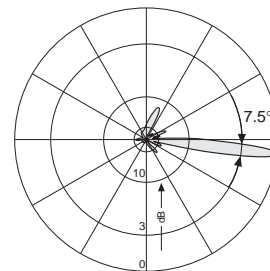
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XPol A-Panel 800/900 90° 17dBi 6°T

Type No.	739 662
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	806 – 960 MHz
VSWR	< 1.3 (870 – 960 MHz) < 1.5 (806 – 870 MHz)
Gain	2 x 17 dBi (870 – 960 MHz) 2 x 16.5 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	+45°, -45°
Front-to-back-ratio, copolar	> 25 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 7.5°, 6°T -45° polarization Horizontal: 90°, vertical: 7.5°, 6°T
Isolation	> 32 dB
Max. power per input	600 Watt (at 50 °C ambient temperature)
Weight	19 kg
Wind load	Frontal: 470 N (at 150 km/h) Lateral: 280 N (at 150 km/h) Rearside: 1040 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2692 x 287 x 165 mm
Height/width/depth	2580 / 262 / 116 mm



Horizontal Pattern



Vertical Pattern

- 6° electr. downtilt
- typical sidelobe suppression above horizon for first and second sidelobe better 16 dB below max. gain



Eurocell A-Panels GSM 900 / 1800

Dual Polarization – +45°/-45° Polarization

65° Half-power Beam Width

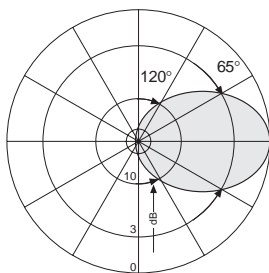
Four independent systems: GSM 900 +45° Polarization } with integrated dual band combiner to one 7-16 female input
 GSM 1800 +45° Polarization }
 GSM 900 -45° Polarization } with integrated dual band combiner to one 7-16 female input
 GSM 1800 -45° Polarization }

XXPol A-Panel 900/1800 C 65°/65° 12.5/13dBi

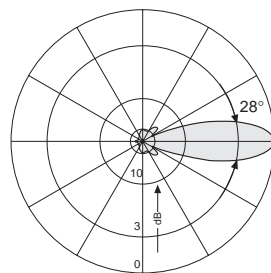
Type No.	741 316	
Frequency range	GSM 900: 870 – 960 MHz	GSM 1800: 1710 – 1880 MHz
VSWR	< 1.5	< 1.5
Gain	2 x 12.5 dBi	2 x 13 dBi
Impedance	50 Ω	50 Ω
Polarization	+45°, -45°	+45°, -45°
Front-to-back-ratio (copolar)	> 30 dB	> 30 dB
Half-power beam width	+45°/ -45° – Horizontal: 65° – Vertical: 28°	+45°/ -45° – Horizontal: 65° – Vertical: 19°
Max. power	250 Watt (at 50 °C ambient temperature)	150 Watt
Isolation	> 30 dB	
Input	2 x 7-16 female	
Connector position	Bottom or top	
Weight	7 kg	
Wind load	Frontal: 110 N (at 150 km/h)	Lateral: 60 N (at 150 km/h)
		Rearside: 240 N (at 150 km/h)
Max. wind velocity	200 km/h	
Packing size	782 x 287 x 165 mm	
Height/width/depth	656 / 262 / 116 mm	



GSM 900: +45°/-45° Polarization

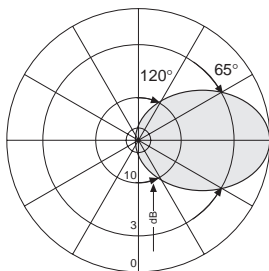


Horizontal Pattern

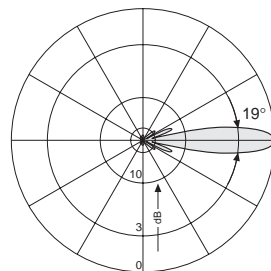


Vertical Pattern

GSM 1800: +45°/-45° Polarization



Horizontal Pattern



Vertical Pattern

Eurocell A-Panels GSM 900 / 1800

Dual Polarization – +45°/-45° Polarization

65° Half-power Beam Width

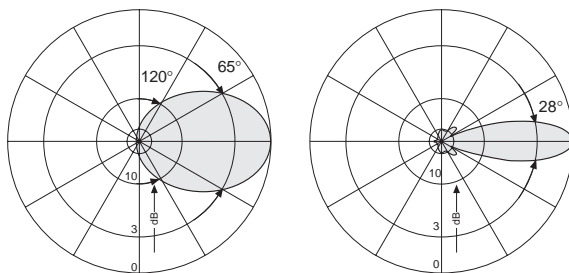
Four independent systems: **GSM 900: +45° Polarization**
GSM 900: -45° Polarization
GSM 1800: +45° Polarization
GSM 1800: -45° Polarization

XXPol A-Panel 900/1800 65°/65° 12.5/13.5dBi

Type No.	741 325	
Frequency range	GSM 900: 870 – 960 MHz	GSM 1800: 1710 – 1880 MHz
VSWR	< 1.5	< 1.5
Gain	2 x 12.5 dBi	2 x 13.5 dBi
Impedance	50 Ω	50 Ω
Polarization	+45°, -45°	+45°, -45°
Front-to-back-ratio (copolar)	> 30 dB	> 30 dB
Half-power beam width	+45°/-45° – Horizontal: 65° – Vertical: 28°	+45°/-45° – Horizontal: 65° – Vertical: 19°
Max. power per input	250 Watt	150 Watt
Isolation	(at 50 °C ambient temperature) > 30 dB (GSM 900 – GSM 900) > 30 dB (GSM 1800 – GSM 1800) > 30 dB (GSM 900 – GSM 1800)	
Input	4 x 7-16 female	
Connector position	Bottom or top	
Weight	7 kg	
Wind load	Frontal: 110 N (at 150 km/h) Lateral: 60 N (at 150 km/h) Rearside: 240 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	782 x 287 x 165 mm	
Height/width/depth	656 / 262 / 116 mm	



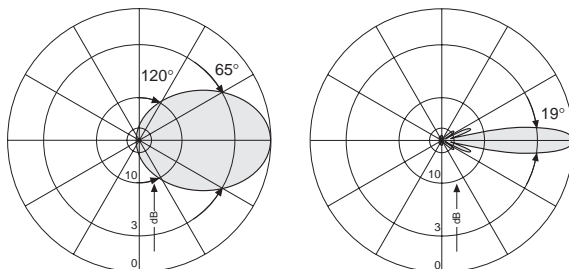
GSM 900: +45°/-45° Polarization



Horizontal Pattern

Vertical Pattern

GSM 1800: +45°/-45° Polarization



Horizontal Pattern

Vertical Pattern

Eurocell A-Panels GSM 900 / 1800

Dual Polarization – +45°/-45° Polarization

65° Half-power Beam Width

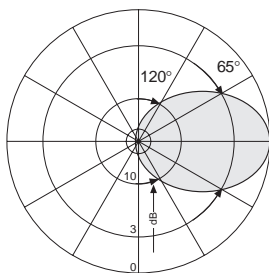
Four independent systems: GSM 900 +45° Polarization } with integrated dual band combiner to one 7-16 female input
 GSM 1800 +45° Polarization }
 GSM 900 -45° Polarization } with integrated dual band combiner to one 7-16 female input
 GSM 1800 -45° Polarization }

XXPol A-Panel 900/1800 C 65°/60° 15/16.5dBi

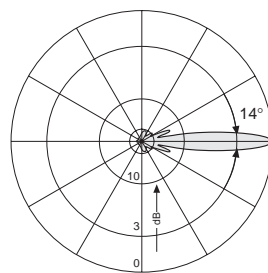
Type No.	741 320	
Frequency range	GSM 900: 870 – 960 MHz	GSM 1800: 1710 – 1880 MHz
VSWR	< 1.5	< 1.5
Gain	2 x 15 dBi	2 x 16.5 dBi
Impedance	50 Ω	50 Ω
Polarization	+45°, -45°	+45°, -45°
Front-to-back-ratio (copolar)	> 30 dB	> 30 dB
Half-power beam width	+45°/-45° – Horizontal: 65° – Vertical: 14°	+45°/-45° – Horizontal: 60° – Vertical: 8°
Max. power	250 Watt (at 50 °C ambient temperature)	150 Watt
Isolation	> 30 dB	
Input	2 x 7-16 female	
Connector position	Bottom or top	
Weight	13 kg	
Wind load	Frontal: 220 N (at 150 km/h)	Lateral: 140 N (at 150 km/h)
		Rearside: 490 N (at 150 km/h)
Max. wind velocity	200 km/h	
Packing size	1422 x 287 x 165 mm	
Height/width/depth	1296 / 262 / 116 mm	



GSM 900: +45°/-45° Polarization

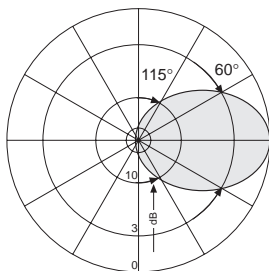


Horizontal Pattern

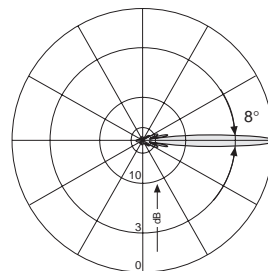


Vertical Pattern

GSM 1800: +45°/-45° Polarization



Horizontal Pattern



Vertical Pattern

Eurocell A-Panels GSM 900 / 1800

Dual Polarization – +45°/-45° Polarization

65° Half-power Beam Width

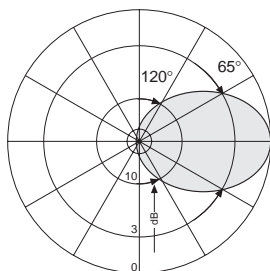
Four independent systems: **GSM 900: +45° Polarization**
GSM 900: -45° Polarization
GSM 1800: +45° Polarization
GSM 1800: -45° Polarization

XXPol A-Panel 900/1800 65°/60° 15/17dBi

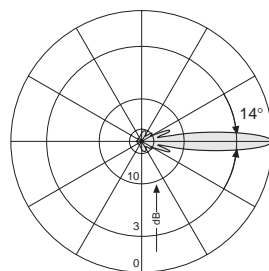
Type No.	741 326	
Frequency range	GSM 900: 870 – 960 MHz	GSM 1800: 1710 – 1880 MHz
VSWR	< 1.5	< 1.5
Gain	2 x 15 dBi	2 x 17 dBi
Impedance	50 Ω	50 Ω
Polarization	+45°, -45°	+45°, -45°
Front-to-back-ratio (copolar)	> 30 dB	> 30 dB
Half-power beam width	+45°/-45° – Horizontal: 65° – Vertical: 14°	+45°/-45° – Horizontal: 60° – Vertical: 8°
Max. power per input	400 Watt	200 Watt
Isolation	(at 50 °C ambient temperature) > 30 dB (GSM 900 – GSM 900) > 30 dB (GSM 1800 – GSM 1800) > 30 dB (GSM 900 – GSM 1800)	
Input	4 x 7-16 female	
Connector position	Bottom or top	
Weight	13 kg	
Wind load	Frontal: 220 N (at 150 km/h) Lateral: 140 N (at 150 km/h) Rearside: 490 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	1422 x 287 x 165 mm	
Height/width/depth	1296 / 262 / 116 mm	



GSM 900: +45°/-45° Polarization

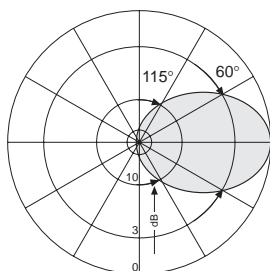


Horizontal Pattern

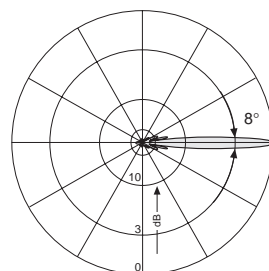


Vertical Pattern

GSM 1800: +45°/-45° Polarization



Horizontal Pattern



Vertical Pattern

Eurocell A-Panels GSM 900 / 1800

Dual Polarization – +45°/-45° Polarization

65° Half-power Beam Width

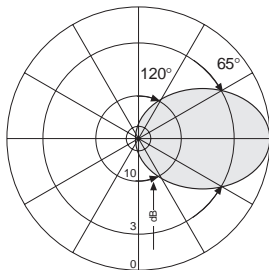
Four independent systems: GSM 900 +45° Polarization } with integrated dual band combiner to one 7-16 female input
 GSM 1800 +45° Polarization }
 GSM 900 -45° Polarization } with integrated dual band combiner to one 7-16 female input
 GSM 1800 -45° Polarization }

XXPol A-Panel 900/1800 C 65°/60° 17/18dBi

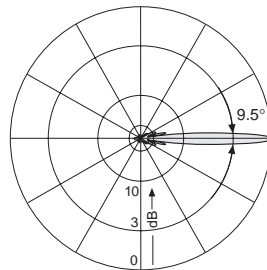
Type No.	741 322	
Frequency range	GSM 900: 870 – 960 MHz	GSM 1800: 1710 – 1880 MHz
VSWR	< 1.5	< 1.5
Gain	2 x 17 dBi	2 x 18 dBi
Impedance	50 Ω	50 Ω
Polarization	+45°, -45°	+45°, -45°
Front-to-back-ratio (copolar)	> 30 dB	> 30 dB
Half-power beam width	+45°/-45° – Horizontal: 65° – Vertical: 9.5°	+45°/-45° – Horizontal: 60° – Vertical: 5.5°
Max. power	250 Watt	150 Watt
	(at 50 °C ambient temperature)	
Isolation	> 30 dB	
Input	2 x 7-16 female	
Connector position	Bottom or top	
Weight	19 kg	
Wind load	Frontal: 330 N (at 150 km/h)	Lateral: 200 N (at 150 km/h)
	Rearside: 770 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2057 x 287 x 165 mm	
Height/width/depth	1936 / 262 / 116 mm	



GSM 900: +45°/-45° Polarization

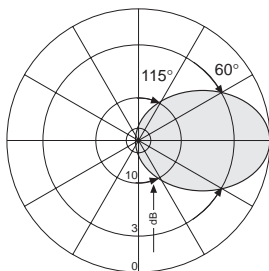


Horizontal Pattern

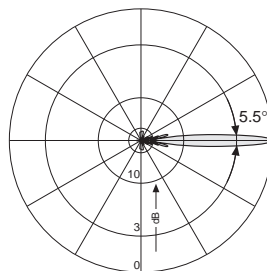


Vertical Pattern

GSM 1800: +45°/-45° Polarization



Horizontal Pattern



Vertical Pattern

Vertical Pattern: Typical sidelobe suppression above horizon for first sidelobe better 15 dB below maximum gain.

Eurocell A-Panels GSM 900 / 1800

Dual Polarization – +45°/-45° Polarization

65° Half-power Beam Width

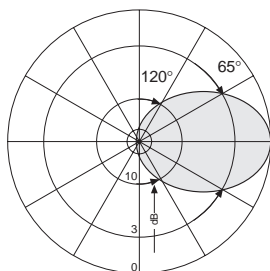
Four independent systems: **GSM 900: +45° Polarization**
GSM 900: -45° Polarization
GSM 1800: +45° Polarization
GSM 1800: -45° Polarization

XXPol A-Panel 900/1800 65°/60° 17/18.5dBi

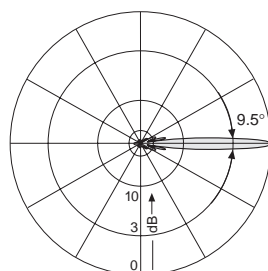
Type No.	741 327	
Frequency range	GSM 900: 870 – 960 MHz	GSM 1800: 1710 – 1880 MHz
VSWR	< 1.5	< 1.5
Gain	2 x 17 dBi	2 x 18.5 dBi
Impedance	50 Ω	50 Ω
Polarization	+45°, -45°	+45°, -45°
Front-to-back-ratio (copolar)	> 30 dB	> 30 dB
Half-power beam width	+45°/-45° – Horizontal: 65° – Vertical: 9.5°	+45°/-45° – Horizontal: 60° – Vertical: 5.5°
Max. power per input	400 Watt	200 Watt
Isolation	(at 50 °C ambient temperature) > 30 dB (GSM 900 – GSM 900) > 30 dB (GSM 1800 – GSM 1800) > 30 dB (GSM 900 – GSM 1800)	
Input	4 x 7-16 female	
Connector position	Bottom or top	
Weight	19 kg	
Wind load	Frontal: 330 N (at 150 km/h) Lateral: 200 N (at 150 km/h) Rearside: 770 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2057 x 287 x 165 mm	
Height/width/depth	1936 / 262 / 116 mm	



GSM 900: +45°/-45° Polarization

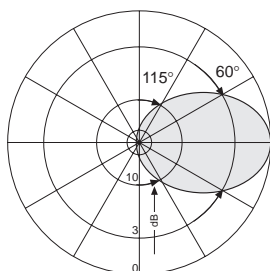


Horizontal Pattern

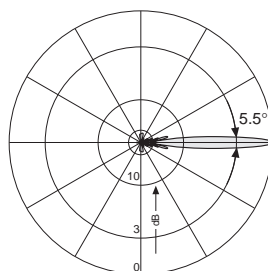


Vertical Pattern

GSM 1800: +45°/-45° Polarization



Horizontal Pattern



Vertical Pattern

Vertical Pattern: Typical sidelobe suppression above horizon for first sidelobe better 15 dB below maximum gain.

Eurocell A-Panels GSM 900 / 1800

Dual Polarization – +45°/-45° Polarization

65° Half-power Beam Width

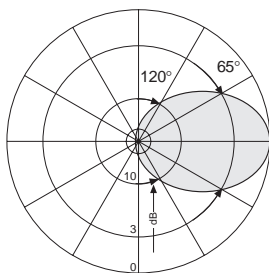
Four independent systems: GSM 900 +45° Polarization } with integrated dual band combiner to one 7-16 female input
 GSM 1800 +45° Polarization }
 GSM 900 -45° Polarization } with integrated dual band combiner to one 7-16 female input
 GSM 1800 -45° Polarization }

XXPol A-Panel 900/1800 C 65°/60° 18/19dBi

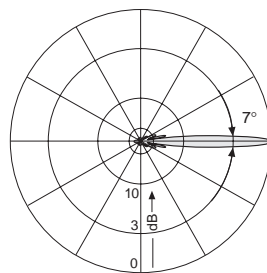
Type No.	741 324	
Frequency range	GSM 900: 870 – 960 MHz	GSM 1800: 1710 – 1880 MHz
VSWR	< 1.5	< 1.5
Gain	2 x 18 dBi	2 x 19 dBi
Impedance	50 Ω	50 Ω
Polarization	+45°, -45°	+45°, -45°
Front-to-back-ratio (copolar)	> 30 dB	> 30 dB
Half-power beam width	+45°/-45° – Horizontal: 65° – Vertical: 7°	+45°/-45° – Horizontal: 60° – Vertical: 4°
Max. power per input	250 Watt	150 Watt
	(at 50 °C ambient temperature)	
Isolation	> 30 dB	
Input	2 x 7-16 female	
Connector position	Bottom or top	
Weight	25 kg	
Wind load	Frontal: 470 N (at 150 km/h)	Lateral: 280 N (at 150 km/h)
	Rearside: 1040 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2692 x 287 x 165 mm	
Height/width/depth	2580 / 262 / 116 mm	



GSM 900: +45°/-45° Polarization

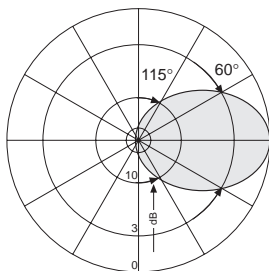


Horizontal Pattern

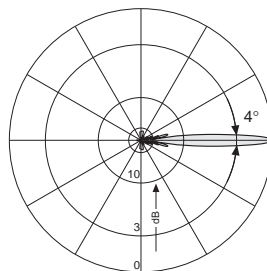


Vertical Pattern

GSM 1800: +45°/-45° Polarization



Horizontal Pattern



Vertical Pattern

Eurocell A-Panels GSM 900 / 1800

Dual Polarization – +45°/-45° Polarization

65° Half-power Beam Width

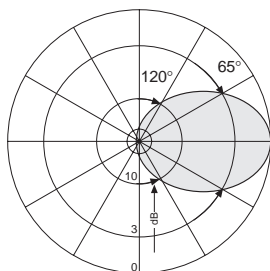
Four independent systems: **GSM 900: +45° Polarization**
GSM 900: -45° Polarization
GSM 1800: +45° Polarization
GSM 1800: -45° Polarization

XXPol A-Panel 900/1800 65°/60° 18/19.5dBi

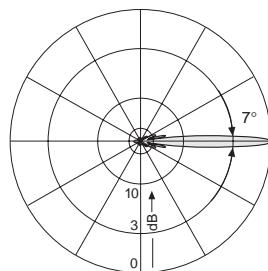
Type No.	741 328	
Frequency range	GSM 900: 870 – 960 MHz	GSM 1800: 1710 – 1880 MHz
VSWR	< 1.5	< 1.5
Gain	2 x 18 dBi	2 x 19.5 dBi
Impedance	50 Ω	50 Ω
Polarization	+45°, -45°	+45°, -45°
Front-to-back-ratio (copolar)	> 30 dB	> 30 dB
Half-power beam width	+45°/-45° – Horizontal: 65° – Vertical: 7°	+45°/-45° – Horizontal: 60° – Vertical: 4°
Max. power per input	400 Watt	200 Watt
Isolation	(at 50 °C ambient temperature) > 30 dB (GSM 900 – GSM 900) > 30 dB (GSM 1800 – GSM 1800) > 30 dB (GSM 900 – GSM 1800)	
Input	4 x 7-16 female	
Connector position	Bottom or top	
Weight	25 kg	
Wind load	Frontal: 470 N (at 150 km/h) Lateral: 280 N (at 150 km/h) Rearside: 1040 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2692 x 287 x 165 mm	
Height/width/depth	2580 / 262 / 116 mm	



GSM 900: +45°/-45° Polarization

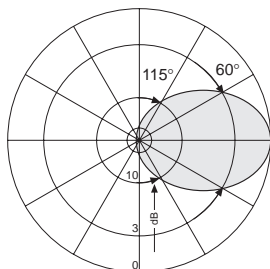


Horizontal Pattern

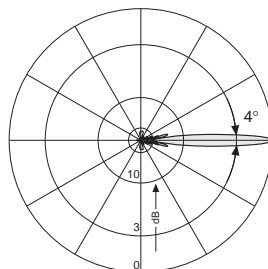


Vertical Pattern

GSM 1800: +45°/-45° Polarization



Horizontal Pattern



Vertical Pattern

Eurocell A-Panels GSM 900 / 1800

Dual Polarization – +45°/-45° Polarization

65° Half-power Beam Width

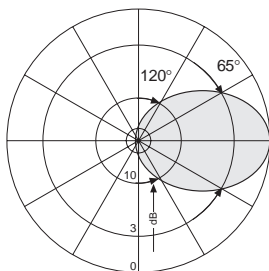
Four independent systems: GSM 900 +45° Polarization } with integrated dual band combiner to one 7-16 female input
 GSM 1800 +45° Polarization }
 GSM 900 -45° Polarization } with integrated dual band combiner to one 7-16 female input
 GSM 1800 -45° Polarization }

XXPol A-Panel 900/1800 C 65°/60° 17.5/17.5dBi 6°T

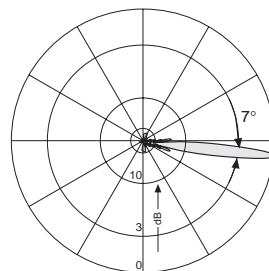
Type No.	741 336	
Frequency range	GSM 900: 870 – 960 MHz	GSM 1800: 1710 – 1880 MHz
VSWR	< 1.5	< 1.5
Gain	2 x 17.5 dBi	2 x 17.5 dBi
Impedance	50 Ω	50 Ω
Polarization	+45°, -45°	+45°, -45°
Front-to-back-ratio (copolar)	> 30 dB	> 30 dB
Half-power beam width	+45°/ -45° – Horizontal: 65° – Vertical: 7°, 6°T	+45°/ -45° – Horizontal: 60° – Vertical: 6.5°, 6°T
Max. power per input	250 Watt	150 Watt
	(at 50 °C ambient temperature)	
Isolation	> 30 dB	
Input	2 x 7-16 female	
Connector position	Bottom or top	
Weight	25 kg	
Wind load	Frontal: 470 N (at 150 km/h)	Lateral: 280 N (at 150 km/h)
	Rearside: 1040 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2692 x 287 x 165 mm	
Height/width/depth	2580 / 262 / 116 mm	



GSM 900: +45°/-45° Polarization

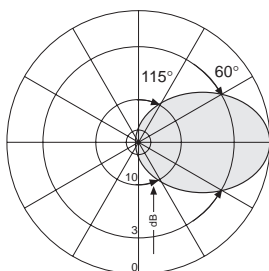


Horizontal Pattern

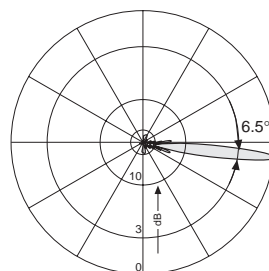


Vertical Pattern
6° electr. downtilt

GSM 1800: +45°/-45° Polarization



Horizontal Pattern



Vertical Pattern
6° electr. downtilt

Eurocell A-Panels GSM 900 / 1800

Dual Polarization – +45°/-45° Polarization

65° Half-power Beam Width

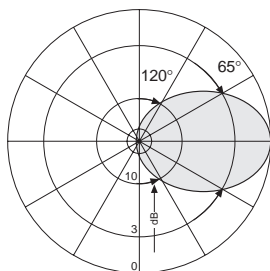
Four independent systems: **GSM 900: +45° Polarization**
GSM 900: -45° Polarization
GSM 1800: +45° Polarization
GSM 1800: -45° Polarization

XXPol A-Panel 900/1800 65°/60° 17.5/18dBi 6°T

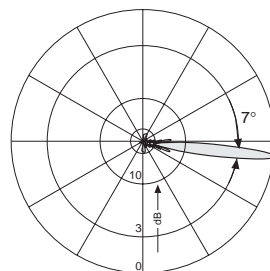
Type No.	741 344	
Frequency range	GSM 900: 870 – 960 MHz	GSM 1800: 1710 – 1880 MHz
VSWR	< 1.5	< 1.5
Gain	2 x 17.5 dBi	2 x 18 dBi
Impedance	50 Ω	50 Ω
Polarization	+45°, -45°	+45°, -45°
Front-to-back-ratio (copolar)	> 30 dB	> 30 dB
Half-power beam width	+45°/ -45° – Horizontal: 65° – Vertical: 7°, 6°T	+45°/ -45° – Horizontal: 60° – Vertical: 6.5°, 6°T
Max. power per input	400 Watt	200 Watt
Isolation	(at 50 °C ambient temperature) > 30 dB (GSM 900 – GSM 900) > 30 dB (GSM 1800 – GSM 1800) > 30 dB (GSM 900 – GSM 1800)	
Input	4 x 7-16 female	
Connector position	Bottom or top	
Weight	25 kg	
Wind load	Frontal: 470 N (at 150 km/h) Lateral: 280 N (at 150 km/h) Rearside: 1040 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2692 x 287 x 165 mm	
Height/width/depth	2580 / 262 / 116 mm	



GSM 900: +45°/-45° Polarization

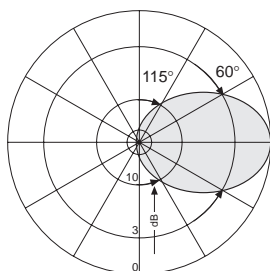


Horizontal Pattern

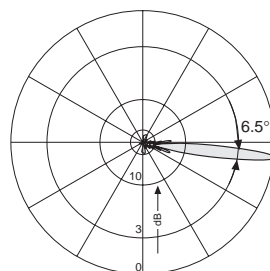


Vertical Pattern
6° electr. downtilt

GSM 1800: +45°/-45° Polarization



Horizontal Pattern



Vertical Pattern
6° electr. downtilt

Eurocell Panels

The Approved Antenna Family for Vertical Polarization

Compact, elegant design	Small size and elegant design are the distinguishing features of this antenna family, characteristics which predestine these antennas for use in modern cellular networks.
Fiberglass radome	The grey fiberglass radomes of these antennas are very stable and extraordinarily stiff. They are resistant to ultraviolet radiation and can also be painted to match their surroundings.
Environmental influences	The design of Kathrein antennas is based on fundamental engineering knowledge and also on decades of practical experience, during which the various constructions and materials used have proved their outstanding reliability.
Environmental conditions	Kathrein cellular antennas are designed to operate under the environmental conditions as described in ETS 300 019-1-4 class 4.1 E. The antennas exceed this standard with regard to the following items: <ul style="list-style-type: none">– Low temperature: – 55 °C– High temperature (dry): + 60 °C
Environmental tests	Kathrein antennas have passed environmental tests as recommended in ETS 300 019-2-4. The homogenous design of Kathrein's antenna families use identical modules and materials. Extensive tests have been performed on typical samples and modules.
Long service life	According to our own experience, the outstanding mechanical characteristics of Kathrein antennas result in an antenna service life of over 15 years.
Large variety of half-power beam widths and gains	The customer can choose from more than 75 versions, e.g. different half-power beam-widths of 65°, 90°, 105°, 120° and 160°, gain values from 6.5 to 18.5 dBi and electrical downtilts of up to 15°.
Electrical downtilt	
Low intermodulation products (typically -150 dBc)	After many years' experience in the construction of antennas and after intensive research into the effects of intermodulation, we have been able to optimize the material used for Eurocell panels (the given value refers to 3rd order products measured with 2 carriers of 20 W each).
Broadband design	2 groups of antennas are available for the frequency ranges: 870 – 960 MHz, optimized for GSM 806 – 960 MHz, for other cellular networks.
Excellent grounding	The Eurocell Panels are DC grounded according EN 50083-1. The inner conductors are DC grounded for DC loop monitoring.
Multi-functional installation hardware	Depending on their length, the antennas are equipped with up to 3 fixing points. The Eurocell Panels can be wall mounted without any additional hardware. For mast mounting, stainless steel brackets and mechanical downtilt kits are available. To assist the installation technicians in aligning the antennas, an azimuth adjustment tool can be supplied (see Accessories).



Vertical Polarization

Type	Type No.	Frequency range	Height	Connector position	Page
Panel 900 65° 9 dBi	730 676	860 – 960 MHz	264 mm	bottom or top	38
Panel 900 65° 9 dBi	730 677	860 – 960 MHz	264 mm	bottom or top	38
Panel 900 65° 12.5 dBi	730 360	870 – 960 MHz	654 mm	bottom	38
Panel 800/900 65° 12.5 dBi	732 447	806 – 960 MHz	654 mm	bottom	38
Panel 900 65° 14 dBi	730 685	870 – 960 MHz	974 mm	bottom	39
Panel 800/900 65° 14 dBi	738 406	824 – 960 MHz	974 mm	bottom	39
Panel 900 65° 14 dBi 11°T	735 810	880 – 960 MHz	974 mm	bottom	39
Panel 900 65° 15.5 dBi	730 368	870 – 960 MHz	1294 mm	bottom	40
Panel 800/900 65° 15.5 dBi	732 448	806 – 960 MHz	1294 mm	bottom	40
Panel 900 65° 15.5 dBi 6°T	732 691	870 – 960 MHz	1294 mm	bottom	40
Panel 900 65° 15 dBi 12°T	737 735	880 – 960 MHz	1294 mm	bottom	41
Panel 900 65° 17 dBi	730 691	870 – 960 MHz	1934 mm	rearside	41
Panel 800/900 65° 17 dBi	738 407	824 – 960 MHz	1934 mm	rearside	41
Panel 900 65° 17 dBi 4.5°T	735 811	870 – 960 MHz	1934 mm	rearside	42
Panel 900 65° 17 dBi 6°T	732 690	870 – 960 MHz	1934 mm	rearside	42
Panel 900 65° 17 dBi 9°T	737 547	870 – 960 MHz	1934 mm	rearside	43
Panel 900 65° 18 dBi	739 854	870 – 960 MHz	2254 mm	rearside	43
Panel 900 65° 18 dBi	734 688	870 – 960 MHz	2574 mm	bottom	44
Panel 900 65° 18.5 dBi	730 376	870 – 960 MHz	2574 mm	rearside	44
Panel 800/900 65° 18.5 dBi	732 433	806 – 960 MHz	2574 mm	rearside	44
Panel 800/900 65° 18.5 dBi 6°T	741 619	806 – 960 MHz	2574 mm	bottom	45
Panel 900 65° 18.5 dBi 6°T	732 689	870 – 960 MHz	2574 mm	bottom	45
Panel 900 65° 18.5 dBi 9°T	737 548	870 – 960 MHz	2574 mm	bottom	45
Panel 900 90° 7.5 dBi	730 678	860 – 960 MHz	264 mm	bottom or top	46
Panel 900 90° 11 dBi	730 362	870 – 960 MHz	654 mm	bottom	46
Panel 900 90° 14 dBi	730 370	870 – 960 MHz	1294 mm	bottom	47
Panel 800/900 90° 14 dBi	732 480	806 – 960 MHz	1294 mm	bottom	47
Panel 900 90° 14 dBi 6°T	732 507	870 – 960 MHz	1294 mm	bottom	47
Panel 900 90° 14 dBi 12°T	735 908	870 – 960 MHz	1294 mm	bottom	47
Panel 900 90° 15.5 dBi	732 967	870 – 960 MHz	1934 mm	rearside	48
Panel 900 90° 15.5 dBi 6°T	741 067	870 – 960 MHz	1934 mm	rearside	48
Panel 900 90° 17 dBi	730 378	870 – 960 MHz	2574 mm	rearside	49
Panel 800/900 90° 17 dBi	739 418	806 – 960 MHz	2574 mm	rearside	49
Panel 900 90° 17 dBi 6°T	737 549	870 – 960 MHz	2574 mm	rearside	49
Panel 800/900 90° 17 dBi 6°T	741 620	806 – 960 MHz	2574 mm	rearside	49

Vertical Polarization

Type	Type No.	Frequency range	Height	Connector position	Page
Panel 900 105° 13.5 dBi	730 372	870 – 960 MHz	1294 mm	bottom	50
Panel 900 105° 15 dBi	738 811	870 – 960 MHz	1934 mm	rearside	50
Panel 900 105° 16.5 dBi	730 380	870 – 960 MHz	2574 mm	rearside	50
Panel 900 120° 6.5 dBi	730 682	860 – 960 MHz	264 mm	bottom or top	51
Panel 900 120° 10 dBi	730 366	870 – 960 MHz	654 mm	bottom	51
Panel 900 120° 11.5 dBi	730 690	870 – 960 MHz	974 mm	bottom	52
Panel 900 120° 13 dBi	730 374	870 – 960 MHz	1294 mm	bottom	52
Panel 800/900 120° 13 dBi	738 812	824 – 960 MHz	1294 mm	bottom	52
Panel 900 120° 13 dBi 6°T	732 692	870 – 960 MHz	1294 mm	bottom	53
Panel 900 120° 14.5 dBi	737 385	870 – 960 MHz	1934 mm	rearside	53
Panel 900 120° 14.5 dBi 6°T	736 808	870 – 960 MHz	1934 mm	rearside	54
Panel 900 120° 15.5 dBi	739 856	870 – 960 MHz	2254 mm	rearside	54
Panel 900 120° 16 dBi	730 382	870 – 960 MHz	2574 mm	rearside	55
Panel 800/900 120° 16 dBi	736 618	806 – 960 MHz	2574 mm	rearside	55
Panel 900 120° 16 dBi 6°T	738 813	870 – 960 MHz	2574 mm	rearside	55

Adjustable Electrical Downtilt, Vertical Polarization

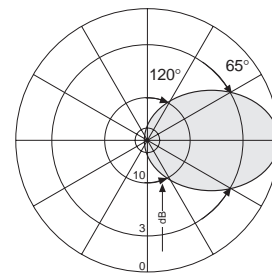
Panel 900 65° 15dBi 3–15°T	737 906	870 – 960 MHz	1294 mm	bottom	56
Panel 900 90° 13.5dBi 3–15°T	736 077	870 – 960 MHz	1294 mm	bottom	57
Panel 900 105° 13dBi 3–15°T	736 078	870 – 960 MHz	1294 mm	bottom	58
Panel 900 160° 11.5dBi 3–15°T	738 018	870 – 960 MHz	1294 mm	bottom	59

Eurocell Panels GSM 900 – Vertical Polarization

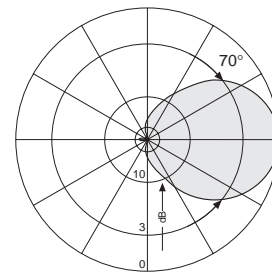
65° Half-power Beam Width

Panel 900 65° 9dBi

Type No.	730 676	730 677
Input	7-16 female	N-female
Connector position	Bottom or top	
Frequency range	860 – 960 MHz	
VSWR	< 1.3	
Gain	9 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 25 dB 890 – 960 MHz > 20 dB 860 – 890 MHz	
Half-power beam width	H-plane: 65°/ E-plane: 70°	
Max. power	350 Watt (at 50 °C ambient temperature)	
Weight	1.2 kg	
Wind load	Frontal: 40 N (at 150 km/h) Lateral: 25 N (at 150 km/h) Rearside: 90 N (at 150 km/h)	
Max. wind velocity	230 km/h	
Packing size	312 x 272 x 160 mm	
Height/width/depth	264 / 258 / 103 mm	



Horizontal Pattern

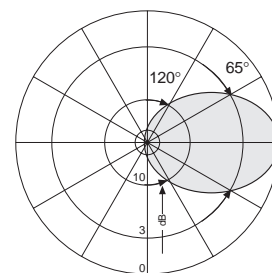


Vertical Pattern

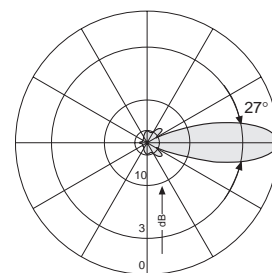


Panel 800/900 65° 12.5dBi

Type No.	730 360	732 447
Input	7-16 female	
Connector position	Bottom	
Frequency range	870 – 960 MHz	806 – 960 MHz
VSWR	< 1.3	< 1.5
Gain	12.5 dBi	12.5 dBi (870 – 960 MHz) 12 dBi (806 – 870 MHz)
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 25 dB	
Half-power beam width	H-plane: 65°/ E-plane: 27°	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	3 kg	
Wind load	Frontal: 110 N (at 150 km/h) Lateral: 65 N (at 150 km/h) Rearside: 240 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	782 x 272 x 160 mm	
Height/width/depth	654 / 258 / 103 mm	



Horizontal Pattern



Vertical Pattern

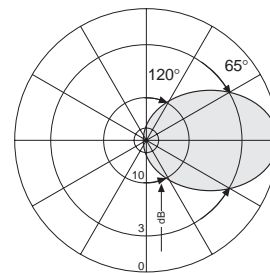


Eurocell Panels GSM 900 – Vertical Polarization

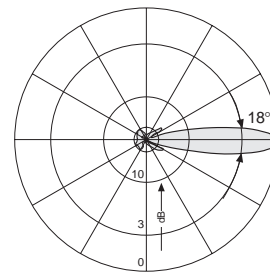
65° Half-power Beam Width

Panel 800/900 65° 14dBi

Type No.	730 685	738 406
Input	7-16 female	
Connector position	Bottom	
Frequency range	870 – 960 MHz	824 – 960 MHz
VSWR	< 1.3	< 1.5
Gain	14 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 25 dB	
Half-power beam width	H-plane: 65°/ E-plane: 18°	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	4.5 kg	
Wind load	Frontal: 160 N (at 150 km/h)	Lateral: 100 N (at 150 km/h)
	Rearside: 360 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	1102 x 272 x 160 mm	
Height/width/depth	974 / 258 / 103 mm	



Horizontal Pattern

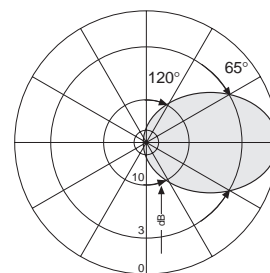


Vertical Pattern

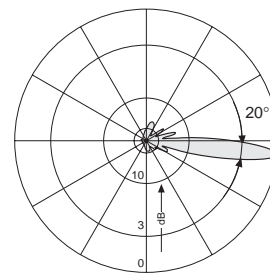


Panel 900 65° 14dBi 11°T

Type No.	735 810
Input	7-16 female
Connector position	Bottom
Frequency range	880 – 960 MHz
VSWR	< 1.3
Gain	14 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 20° 11° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	4.5 kg
Wind load	Frontal: 160 N (at 150 km/h)
	Lateral: 100 N (at 150 km/h)
	Rearside: 360 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1102 x 272 x 160 mm
Height/width/depth	974 / 258 / 103 mm



Horizontal Pattern



Vertical Pattern
11° electr. downtilt

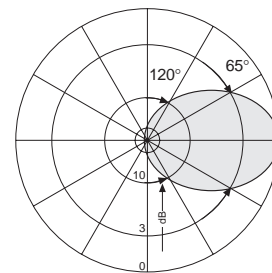


Eurocell Panels GSM 900 – Vertical Polarization

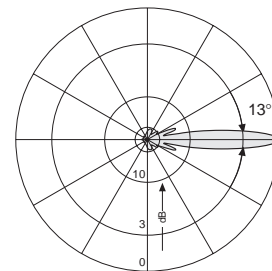
65° Half-power Beam Width

Panel 800/900 65° 15.5dBi

Type No.	730 368	732 448
Input	7-16 female	
Connector position	Bottom	
Frequency range	870 – 960 MHz	806 – 960 MHz
VSWR	< 1.3	< 1.5
Gain	15.5 dBi	15.5 dBi (870 – 960 MHz) 15 dBi (806 – 870 MHz)
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 25 dB	
Half-power beam width	H-plane: 65°/ E-plane: 13°	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	6 kg	
Wind load	Frontal: 220 N (at 150 km/h)	Lateral: 140 N (at 150 km/h) Rearside: 490 N (at 150 km/h)
Max. wind velocity	200 km/h	
Packing size	1422 x 272 x 160 mm	
Height/width/depth	1294 / 258 / 103 mm	



Horizontal Pattern

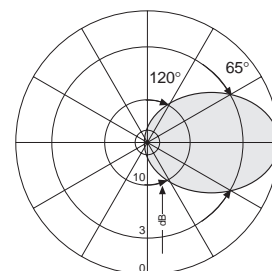


Vertical Pattern

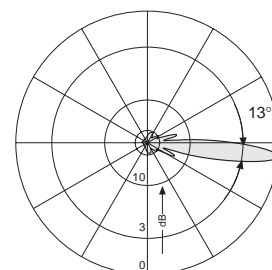


Panel 900 65° 15.5dBi 6°T

Type No.	732 691
Input	7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	15.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 13° 6° electr. downtilt
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	6 kg
Wind load	Frontal: 220 N (at 150 km/h) Lateral: 140 N (at 150 km/h) Rearside: 490 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 272 x 160 mm
Height/width/depth	1294 / 258 / 103 mm



Horizontal Pattern



Vertical Pattern
6° electr. downtilt

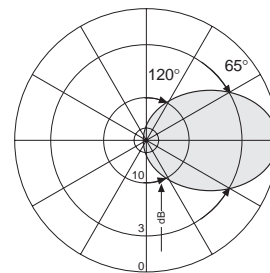


Eurocell Panels GSM 900 – Vertical Polarization

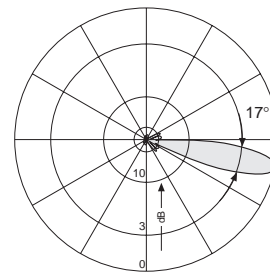
65° Half-power Beam Width

Panel 900 65° 15dBi 12°T

Type No.	737 735
Input	7-16 female
Connector position	Bottom
Frequency range	880 – 960 MHz
VSWR	< 1.3
Gain	15 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 17° 12° electr. downtilt sidelobe supression: > 20 dB (0° ... 40° above horizon)
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	6 kg
Wind load	Frontal: 220 N (at 150 km/h) Lateral: 140 N (at 150 km/h) Rearside: 490 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 272 x 160 mm
Height/width/depth	1294 / 258 / 103 mm



Horizontal Pattern

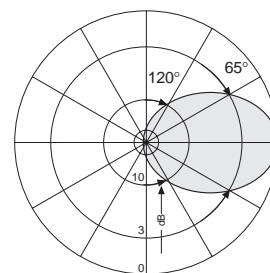


Vertical Pattern
12° electr. downtilt

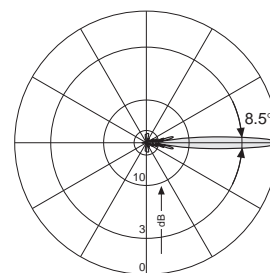


Panel 800/900 65° 17dBi

Type No.	730 691	738 407
Input	7-16 female	
Connector position	Rearside	
Frequency range	870 – 960 MHz	824 – 960 MHz
VSWR	< 1.3	< 1.5
Gain	17 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 25 dB	
Half-power beam width	H-plane: 65°/ E-plane: 8.5°	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	9 kg	
Wind load	Frontal: 340 N (at 150 km/h) Lateral: 220 N (at 150 km/h) Rearside: 750 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2062 x 272 x 160 mm	
Height/width/depth	1934 / 258 / 103 mm	



Horizontal Pattern



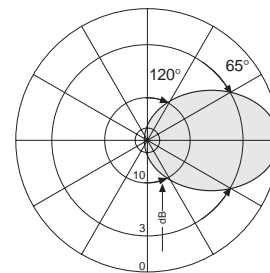
Vertical Pattern

Eurocell Panels GSM 900 – Vertical Polarization

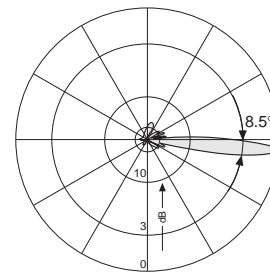
65° Half-power Beam Width

Panel 900 65° 17dBi 4.5°T

Type No.	735 811
Input	7-16 female
Connector position	Rearside
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	17 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 8.5° 4.5° electr. downtilt
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	9 kg
Wind load	Frontal: 340 N (at 150 km/h) Lateral: 220 N (at 150 km/h) Rearside: 750 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2062 x 272 x 160 mm
Height/width/depth	1934 / 258 / 103 mm



Horizontal Pattern

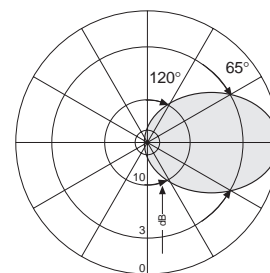


Vertical Pattern
4.5° electr. downtilt

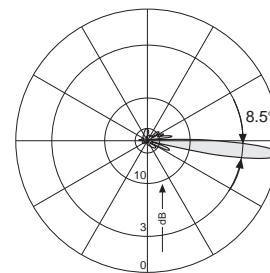


Panel 900 65° 17dBi 6°T

Type No.	732 690
Input	7-16 female
Connector position	Rearside
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	17 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 8.5° 6° electr. downtilt
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	9 kg
Wind load	Frontal: 340 N (at 150 km/h) Lateral: 220 N (at 150 km/h) Rearside: 750 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2062 x 272 x 160 mm
Height/width/depth	1934 / 258 / 103 mm



Horizontal Pattern



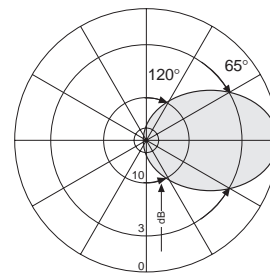
Vertical Pattern
6° electr. downtilt

Eurocell Panels GSM 900 – Vertical Polarization

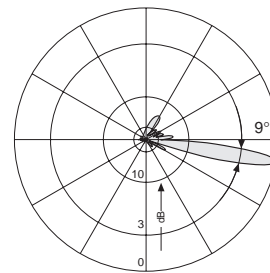
65° Half-power Beam Width

Panel 900 65° 17dBi 9°T

Type No.	737 547
Input	7-16 female
Connector position	Rearside
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	17 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 9° 9° electr. downtilt
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	9 kg
Wind load	Frontal: 340 N (at 150 km/h) Lateral: 220 N (at 150 km/h) Rearside: 750 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2062 x 272 x 160 mm
Height/width/depth	1934 / 258 / 103 mm



Horizontal Pattern

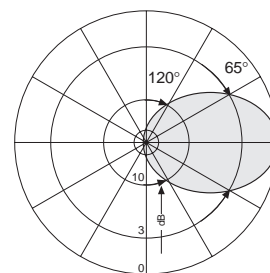


Vertical Pattern
9° electr. downtilt

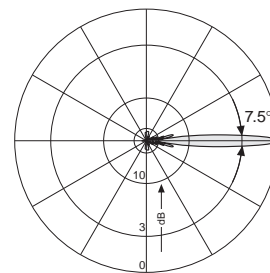


Panel 900 65° 18dBi

Type No.	739 854
Input	7-16 female
Connector Position	Rearside
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	18 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 7.5°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	10.5 kg
Wind load	Frontal: 400 N (at 150 km/h) Lateral: 260 N (at 150 km/h) Rearside: 890 N (at 150 km/h)
Max. wind velocity	180 km/h
Packing size	2382 x 272 x 160 mm
Height/width/depth	2254 / 255 / 105 mm



Horizontal Pattern



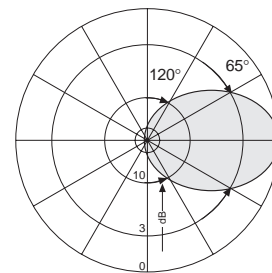
Vertical Pattern

Eurocell Panels GSM 900 – Vertical Polarization

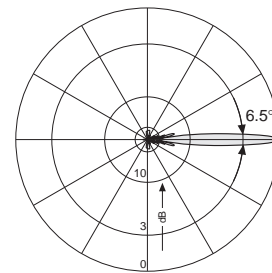
65° Half-power Beam Width

Panel 900 65° 18.5dBi

Type No.	730 376	734 688
Input	7-16 female	7-16 female
Connector position	Rearside	Bottom
Frequency range	870 – 960 MHz	870 – 960 MHz
VSWR	< 1.3	< 1.3
Gain	18.5 dBi	18 dBi
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 25 dB	
Half-power beam width	H-plane: 65°/ E-plane: 6.5°	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	12 kg	
Wind load	Frontal: 460 N (at 150 km/h) Lateral: 300 N (at 150 km/h) Rearside: 1020 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2702 x 272 x 160 mm	
Height/width/depth	2574 / 258 / 103 mm	



Horizontal Pattern

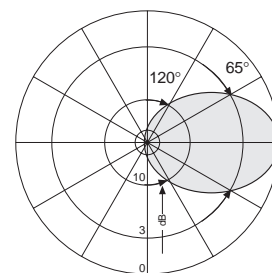


Vertical Pattern

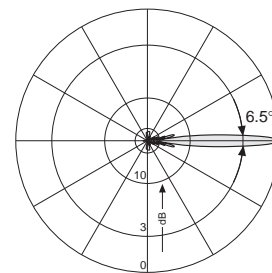


Panel 800/900 65° 18.5dBi

Type No.	732 433
Input	7-16 female
Connector position	Rearside
Frequency range	806 – 960 MHz
VSWR	< 1.5
Gain	18.5 dBi (870 – 960 MHz) 18 dBi (806 – 870 MHz)
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 6.5°
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	12 kg
Wind load	Frontal: 460 N (at 150 km/h) Lateral: 300 N (at 150 km/h) Rearside: 1020 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2702 x 272 x 160 mm
Height/width/depth	2574 / 258 / 103 mm



Horizontal Pattern



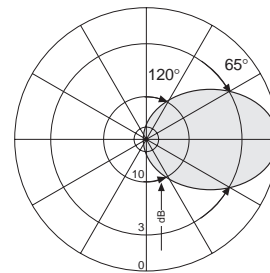
Vertical Pattern

Eurocell Panels GSM 900 – Vertical Polarization

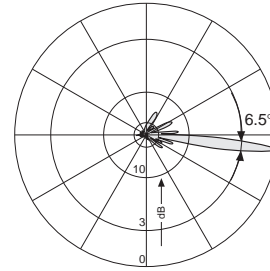
65° Half-power Beam Width

Panel 800/900 65° 18.5dBi 6°T

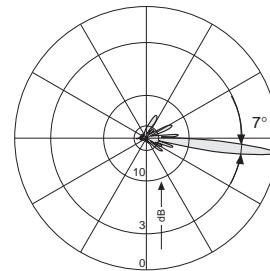
Type No.	732 689	741 619
Input	7-16 female	
Connector position	Rearside	
Frequency range	870 – 960 MHz	806 – 960 MHz
VSWR	< 1.3	< 1.3 (870 – 960 MHz) < 1.5 (806 – 870 MHz)
Gain	18.5 dBi	18.5 dBi (870 – 960 MHz) 18 dBi (806 – 870 MHz)
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 25 dB	
Half-power beam width	H-plane: 65° E-plane: 6.5°	H-plane: 65° E-plane: 7°
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	12 kg	13.2 kg
Wind load	Frontal: 460 N (at 150 km/h) Lateral: 300 N (at 150 km/h) Rearside: 1020 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2702 x 272 x 160 mm	
Height/width/depth	2574 / 258 / 103 mm	



Horizontal Pattern



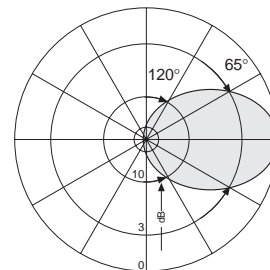
Vertical Pattern
6° electr. downtilt



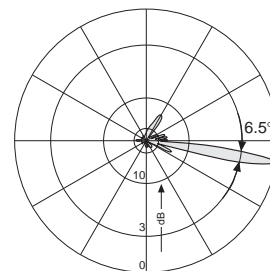
Vertical Pattern
6° electr. downtilt

Panel 900 65° 18.5dBi 9°T

Type No.	737 548
Input	7-16 female
Connector position	Rearside
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	18.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 30 dB
Half-power beam width	H-plane: 65°/ E-plane: 6.5° 9° electr. downtilt
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	12 kg
Wind load	Frontal: 460 N (at 150 km/h) Lateral: 300 N (at 150 km/h) Rearside: 1020 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2702 x 272 x 160 mm
Height/width/depth	2574 / 258 / 103 mm



Horizontal Pattern



Vertical Pattern
9° electr. downtilt

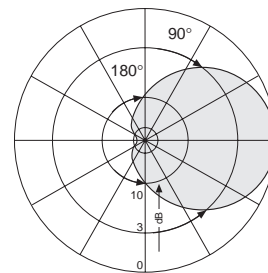


Eurocell Panels GSM 900 – Vertical Polarization

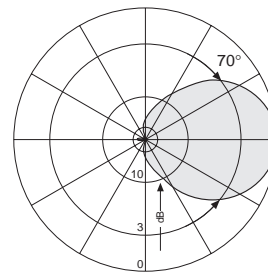
90° Half-power Beam Width

Panel 900 90° 7.5dBi

Type No.	730 678
Input	7-16 female
Connector position	Bottom or top
Frequency range	860 – 960 MHz
VSWR	< 1.3
Gain	7.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 70°
Max. power	350 Watt (at 50 °C ambient temperature)
Weight	1.2 kg
Wind load	Frontal: 40 N (at 150 km/h) Lateral: 25 N (at 150 km/h) Rearside: 90 N (at 150 km/h)
Max. wind velocity	230 km/h
Packing size	312 x 272 x 160 mm
Height/width/depth	264 / 258 / 103 mm



Horizontal Pattern

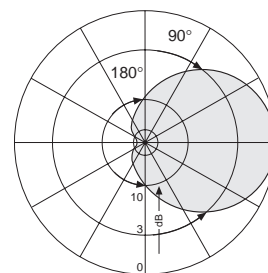


Vertical Pattern

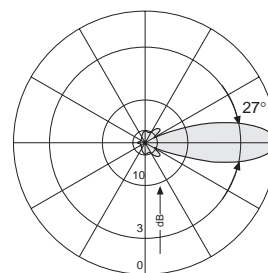


Panel 900 90° 11dBi

Type No.	730 362
Input	7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	11 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 23 dB
Half-power beam width	H-plane: 90°/ E-plane: 27°
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	3 kg
Wind load	Frontal: 110 N (at 150 km/h) Lateral: 65 N (at 150 km/h) Rearside: 240 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	782 x 272 x 160 mm
Height/width/depth	654 / 258 / 103 mm



Horizontal Pattern



Vertical Pattern

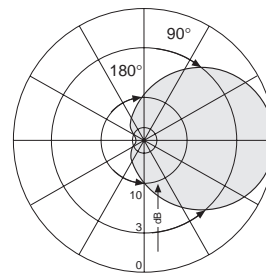


Eurocell Panels GSM 900 – Vertical Polarization

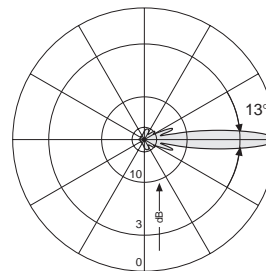
90° Half-power Beam Width

Panel 800/900 90° 14dBi

Type No.	730 370	732 480
Input	7-16 female	
Connector position	Bottom	
Frequency range	870 – 960 MHz	806 – 960 MHz
VSWR	< 1.3	< 1.4
Gain	14 dBi	14 dBi (870 – 960 MHz) 13.5 dBi (806 – 870 MHz)
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 23 dB	
Half-power beam width	H-plane: 90°/ E-plane: 13°	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	6 kg	
Wind load	Frontal: 220 N (at 150 km/h)	Lateral: 140 N (at 150 km/h) Rearside: 490 N (at 150 km/h)
Max. wind velocity	200 km/h	
Packing size	1422 x 272 x 160 mm	
Height/width/depth	1294 / 258 / 103 mm	



Horizontal Pattern

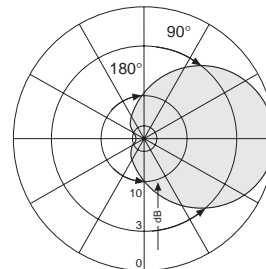


Vertical Pattern

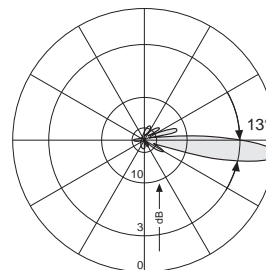


Panel 900 90° 14dBi 6°T / 12°T

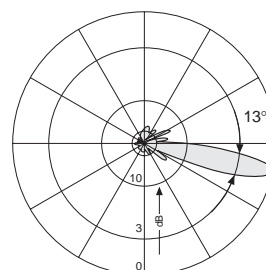
Type No.	732 507	735 908
Input	7-16 female	
Connector position	Bottom	
Frequency range	870 – 960 MHz	
VSWR	< 1.3	
Gain	14 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 23 dB	
Half-power beam width	H-plane: 90°/ E-plane: 13° 6° electr. downtilt 12° electr. downtilt	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	6 kg	
Wind load	Frontal: 220 N (at 150 km/h)	Lateral: 140 N (at 150 km/h) Rearside: 490 N (at 150 km/h)
Max. wind velocity	200 km/h	
Packing size	1422 x 272 x 160 mm	
Height/width/depth	1294 / 258 / 103 mm	



Horizontal Pattern



Vertical Pattern
6° electr. downtilt



Vertical Pattern
12° electr. downtilt

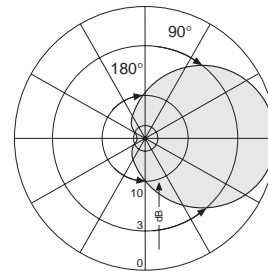


Eurocell Panels GSM 900 – Vertical Polarization

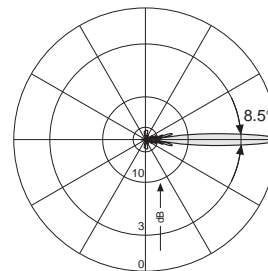
90° Half-power Beam Width

Panel 900 90° 15.5dBi

Type No.	732 967
Input	7-16 female
Connector position	Rearside
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	15.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 23 dB
Half-power beam width	H-plane: 90°/ E-plane: 8.5°
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	9 kg
Wind load	Frontal: 340 N (at 150 km/h) Lateral: 220 N (at 150 km/h) Rearside: 750 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2062 x 272 x 160 mm
Height/width/depth	1934 / 258 / 103 mm



Horizontal Pattern

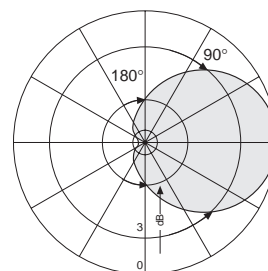


Vertical Pattern

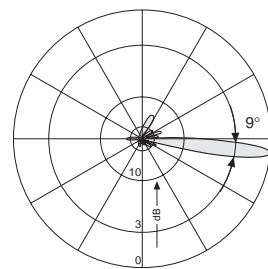


Panel 900 90° 15.5dBi 6T

Type No.	741 067
Input	7-16 female
Connector Position	Rearside
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	15.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 22 dB
Half-power beam width	H-plane: 90°/ E-plane: 9° 6° electr. downtilt
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	9 kg
Wind load	Frontal: 340 N (at 150 km/h) Lateral: 220 N (at 150 km/h) Rearside: 750 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2062 x 272 x 160 mm
Height/width/depth	1934 / 258 / 103 mm



Horizontal Pattern



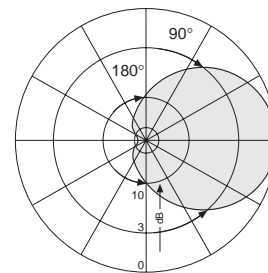
Vertical Pattern
6° electr. downtilt

Eurocell Panels GSM 900 – Vertical Polarization

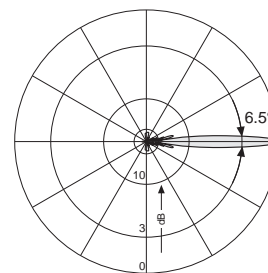
90° Half-power Beam Width

Panel 800/900 90° 17dBi

Type No.	730 378	739 418
Input	7-16 female	
Connector position	Rearside	
Frequency range	870 – 960 MHz	806 – 960 MHz
VSWR	< 1.3	< 1.5
Gain	17 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 23 dB	
Half-power beam width	H-plane: 90°/ E-plane: 6.5°	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	12 kg	
Wind load	Frontal: 460 N (at 150 km/h)	Lateral: 300 N (at 150 km/h)
	Rearside: 1020 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2702 x 272 x 160 mm	
Height/width/depth	2574 / 258 / 103 mm	



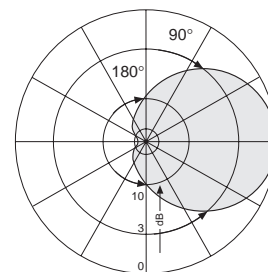
Horizontal Pattern



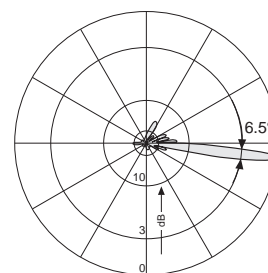
Vertical Pattern

Panel 800/900 90° 17dBi 6°T

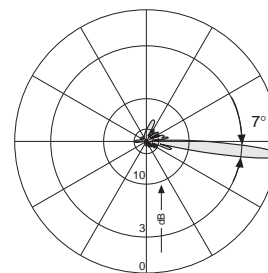
Type No.	737 549	741 620
Input	7-16 female	
Connector position	Rearside	
Frequency range	870 – 960 MHz	806 – 960 MHz
VSWR	< 1.3	< 1.5
Gain	17 dBi	17 dBi (870 – 960 MHz) 16.5 dBi (806 – 870 MHz)
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 23 dB	
Half-power beam width	H-plane: 90° E-plane: 6.5°	H-plane: 90° E-plane: 7°
	6° electr. downtilt	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	12 kg	
Wind load	Frontal: 460 N (at 150 km/h)	Lateral: 300 N (at 150 km/h)
	Rearside: 1020 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2702 x 272 x 160 mm	
Height/width/depth	2574 / 258 / 103 mm	



Horizontal Pattern



Vertical Pattern
6° electr. downtilt



Vertical Pattern
6°electr. downtilt

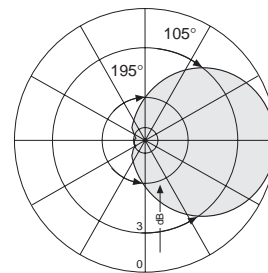


Eurocell Panels GSM 900 – Vertical Polarization

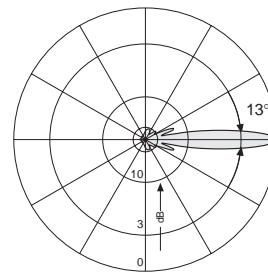
105° Half-power Beam Width

Panel 900 105° 13.5dBi

Type No.	730 372
Input	7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	13.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 22 dB
Half-power beam width	H-plane: 105°/ E-plane: 13°
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	6 kg
Wind load	Frontal: 220 N (at 150 km/h) Lateral: 140 N (at 150 km/h) Rearside: 490 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 272 x 160 mm
Height/width/depth	1294 / 258 / 103 mm



Horizontal Pattern

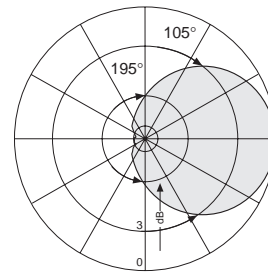


Vertical Pattern

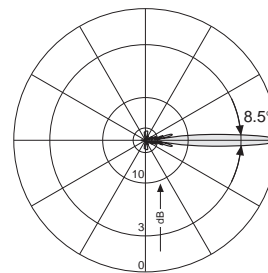


Panel 900 105° 15dBi

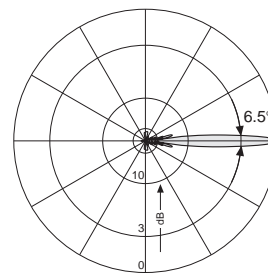
Type No.	738 811	730 380
Input	7-16 female	
Connector position	Rearside	
Frequency range	870 – 960 MHz	
VSWR	< 1.3	
Gain	15 dBi	16.5 dBi
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 22 dB	
Half-power beam width	H-plane: 105° E-plane: 8.5°	H-plane: 105° E-plane: 6.5°
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	9 kg	12 kg
Wind load	Frontal: 340 N (at 150 km/h) Lateral: 220 N (at 150 km/h) Rearside: 750 N (at 150 km/h)	460 N (at 150 km/h) 300 N (at 150 km/h) 1020 N (at 150 km/h)
Max. wind velocity	200 km/h	
Packing size	2062 x 272 x 160 mm	2702 x 272 x 160 mm
Height/width/depth	1934 / 258 / 103 mm	2574 / 258 / 103 mm



Horizontal Pattern



Vertical Pattern



Vertical Pattern

Eurocell Panels GSM 900 – Vertical Polarization

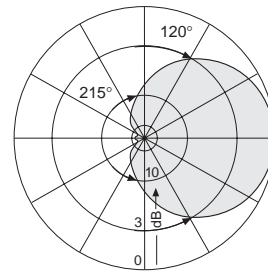
120° Half-power Beam Width

KATHREIN

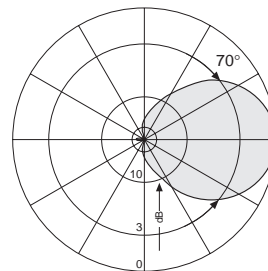
Antennen · Electronic

Panel 900 120° 6.5dBi

Type No.	730 682
Input	7-16 female
Connector position	Bottom or top
Frequency range	860 – 960 MHz
VSWR	< 1.3
Gain	6.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 120°/ E-plane: 70°
Max. power	350 Watt (at 50 °C ambient temperature)
Weight	1.2 kg
Wind load	Frontal: 40 N (at 150 km/h) Lateral: 25 N (at 150 km/h) Rearside: 90 N (at 150 km/h)
Max. wind velocity	230 km/h
Packing size	312 x 272 x 160 mm
Height/width/depth	264 / 258 / 103 mm



Horizontal Pattern

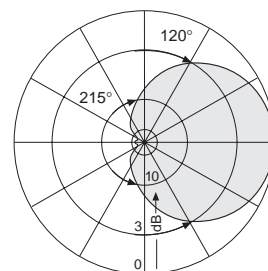


Vertical Pattern

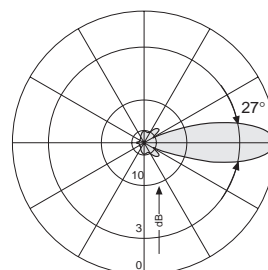


Panel 900 120° 10dBi

Type No.	730 366
Input	7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	10 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 120°/ E-plane: 27°
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	3 kg
Wind load	Frontal: 110 N (at 150 km/h) Lateral: 65 N (at 150 km/h) Rearside: 240 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	782 x 272 x 160 mm
Height/width/depth	654 / 258 / 103 mm



Horizontal Pattern



Vertical Pattern

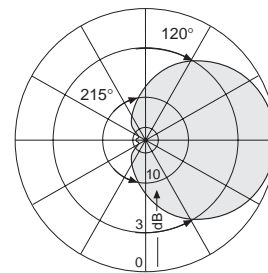


Eurocell Panels GSM 900 – Vertical Polarization

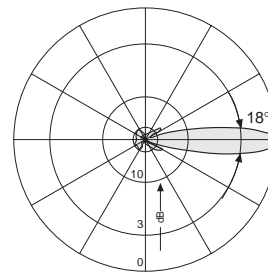
120° Half-power Beam Width

Panel 900 120° 11.5dBi

Type No.	730 690
Input	7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	11.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 120°/ E-plane: 18°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	4.5 kg
Wind load	Frontal: 160 N (at 150 km/h) Lateral: 100 N (at 150 km/h) Rearside: 360 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1102 x 272 x 160 mm
Height/width/depth	974 / 258 / 103 mm



Horizontal Pattern

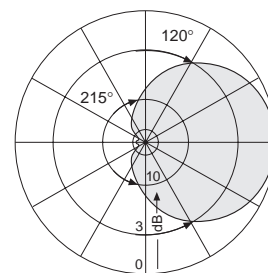


Vertical Pattern

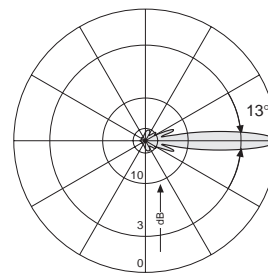


Panel 800/900 120° 13dBi

Type No.	730 374	738 812
Input	7-16 female	
Connector position	Bottom	
Frequency range	870 – 960 MHz	824 – 960 MHz
VSWR	< 1.3	< 1.5
Gain	13 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 20 dB	
Half-power beam width	H-plane: 120°/ E-plane: 13°	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	6 kg	
Wind load	Frontal: 220 N (at 150 km/h) Lateral: 140 N (at 150 km/h) Rearside: 490 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	1422 x 272 x 160 mm	
Height/width/depth	1294 / 258 / 103 mm	



Horizontal Pattern



Vertical Pattern



Eurocell Panels GSM 900 – Vertical Polarization

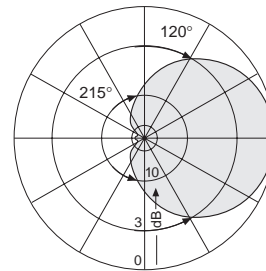
120° Half-power Beam Width

KATHREIN

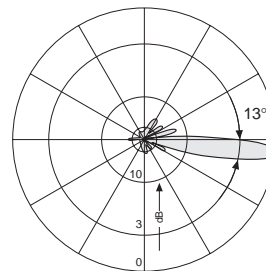
Antennen · Electronic

Panel 900 120° 13dBi 6°T

Type No.	732 692
Input	7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	13 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 120°/ E-plane: 13° 6° electr. downtilt
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	6 kg
Wind load	Frontal: 220 N (at 150 km/h) Lateral: 140 N (at 150 km/h) Rearside: 490 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 272 x 160 mm
Height/width/depth	1294 / 258 / 103 mm



Horizontal Pattern

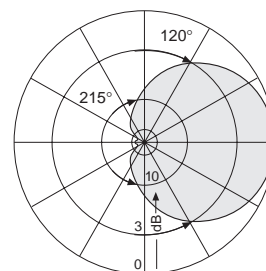


Vertical Pattern
6° electr. downtilt

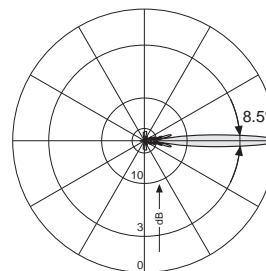


Panel 900 120° 14.5dBi

Type No.	737 385
Input	7-16 female
Connector position	Rearside
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	14.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 120°/ E-plane: 8.5°
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	9 kg
Wind load	Frontal: 340 N (at 150 km/h) Lateral: 220 N (at 150 km/h) Rearside: 750 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2062 x 272 x 160 mm
Height/width/depth	1934 / 258 / 103 mm



Horizontal Pattern



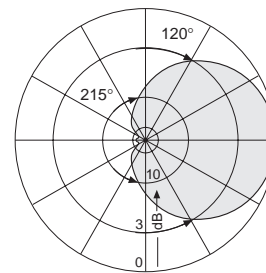
Vertical Pattern

Eurocell Panels GSM 900 – Vertical Polarization

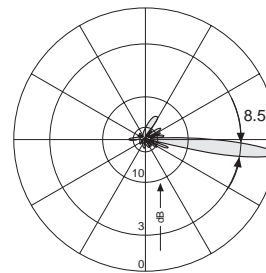
120° Half-power Beam Width

Panel 900 120° 14.5dBi 6°T

Type No.	736 808
Input	7-16 female
Connector position	Rearside
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	14.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 120°/ E-plane: 8.5° 6° electr. downtilt
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	9 kg
Wind load	Frontal: 340 N (at 150 km/h) Lateral: 220 N (at 150 km/h) Rearside: 750 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2062 x 272 x 160 mm
Height/width/depth	1934 / 258 / 103 mm



Horizontal Pattern

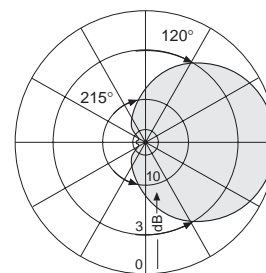


Vertical Pattern
6° electr. downtilt

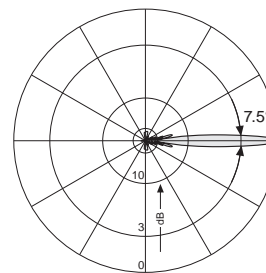


Panel 900 120° 15.5dBi

Type No.	739 856
Input	7-16 female
Connector Position	Rearside
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	15.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 120°/ E-plane: 7.5°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	10.5 kg
Wind load	Frontal: 400 N (at 150 km/h) Lateral: 260 N (at 150 km/h) Rearside: 890 N (at 150 km/h)
Max. wind velocity	180 km/h
Packing size	2382 x 272 x 160 mm
Height/width/depth	2254 / 258 / 103 mm



Horizontal Pattern



Vertical Pattern

Eurocell Panels GSM 900 – Vertical Polarization

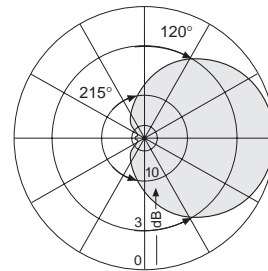
120° Half-power Beam Width

KATHREIN

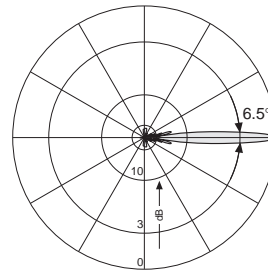
Antennen · Electronic

Panel 800/900 120° 16dBi

Type No.	730 382	736 618
Input	7-16 female	
Connector position	Rearside	
Frequency range	870 – 960 MHz	806 – 960 MHz
VSWR	< 1.3	< 1.5
Gain	16 dBi	16 dBi (870 – 960 MHz) 15.5 dBi (806 – 870 MHz)
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back-ratio	> 20 dB	
Half-power beam width	H-plane: 120°/ E-plane: 6.5°	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	12 kg	
Wind load	Frontal: 460 N (at 150 km/h) Lateral: 300 N (at 150 km/h) Rearside: 1020 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	2702 x 272 x 160 mm	
Height/width/depth	2574 / 258 / 103 mm	



Horizontal Pattern

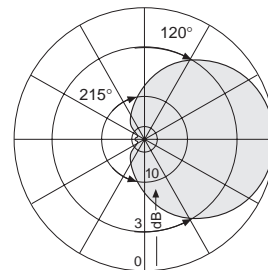


Vertical Pattern

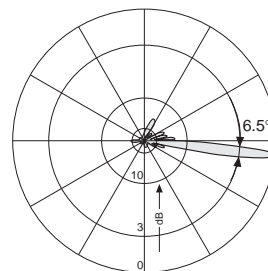


Panel 900 120° 16dBi 6°T

Type No.	738 813
Input	7-16 female
Connector position	Rearside
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	16 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 120°/ E-plane: 6.5° 6° electr. downtilt
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	12 kg
Wind load	Frontal: 460 N (at 150 km/h) Lateral: 300 N (at 150 km/h) Rearside: 1020 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2702 x 272 x 160 mm
Height/width/depth	2574 / 258 / 103 mm



Horizontal Pattern



Vertical Pattern
6° electr. downtilt

Eurocell Panels GSM 900 – Vertical Polarization

Adjustable Electrical Downtilt 3°–15°

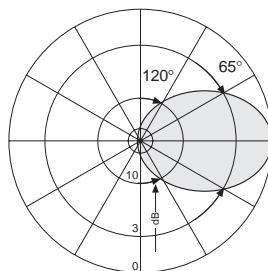
65° Half-power Beam Width

KATHREIN

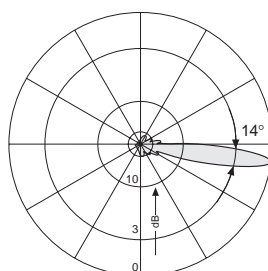
Antennen · Electronic

Panel 900 65° 15dBi 3°–15°T

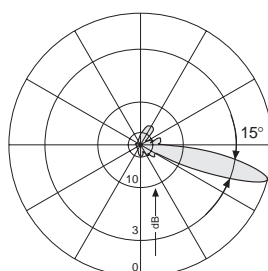
Type No.	737 906
Input	7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.5
Impedance	50 Ω
Gain	15 dBi
Polarization	Vertical
Front-to-back-ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 14° electr. downtilt: 3° – 15° adjustable in 1° steps sidelobe suppression: > 14 dB (0° ... 40° above horizon)
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	7 kg
Wind load	Frontal: 220 N (at 150 km/h) Lateral: 140 N (at 150 km/h) Rearside: 490 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 302 x 160 mm
Height/width/depth	1294 / 258 / 103 mm



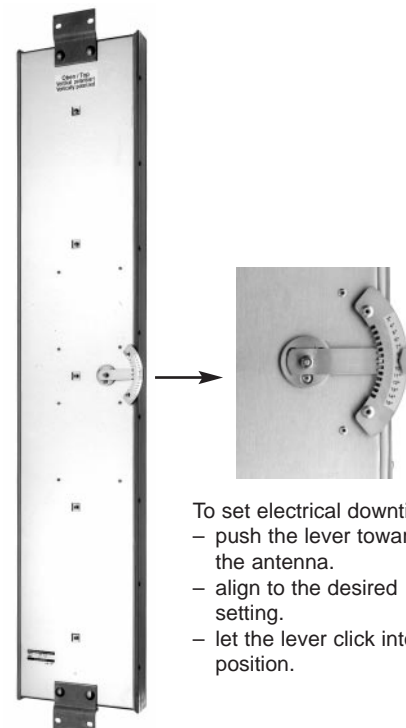
Horizontal Pattern



Vertical Pattern
7° Downtilt



Vertical Pattern
15° Downtilt



- To set electrical downtilt:
- push the lever towards the antenna.
 - align to the desired setting.
 - let the lever click into position.

Eurocell Panels GSM 900 – Vertical Polarization

Adjustable Electrical Downtilt 3°–15°

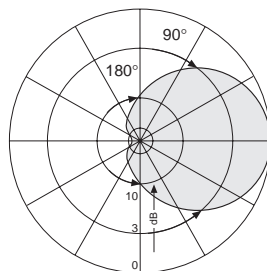
90° Half-power Beam Width

KATHREIN

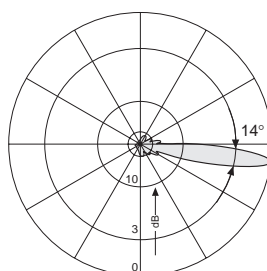
Antennen · Electronic

Panel 900 90° 13.5dBi 3–15°T

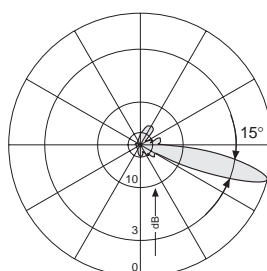
Type No.	736 077
Input	7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.4
Impedance	50 Ω
Gain	13.5 dBi
Polarization	Vertical
Front-to-back-ratio	> 22 dB
Half-power beam width	H-plane: 90°/ E-plane: 14° electr. downtilt: 3° – 15° adjustable in 1° steps sidelobe suppression: > 14 dB (0° ... 40° above horizon)
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	6 kg
Wind load	Frontal: 220 N (at 150 km/h) Lateral: 140 N (at 150 km/h) Rearside: 490 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 302 x 160 mm
Height/width/depth	1294 / 258 / 103 mm



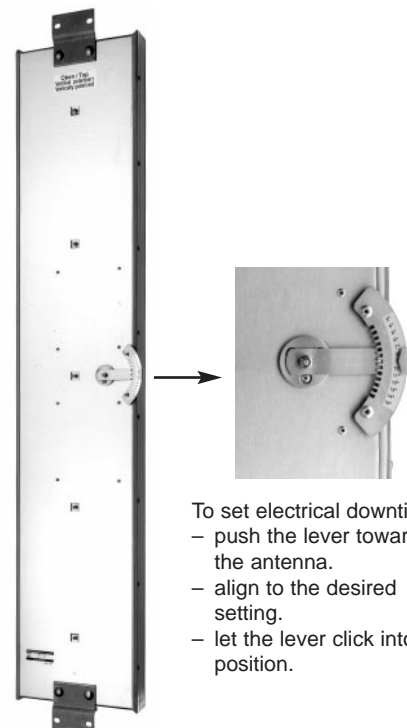
Horizontal Pattern



Vertical Pattern
7° Downtilt



Vertical Pattern
15° Downtilt



- To set electrical downtilt:
- push the lever towards the antenna.
 - align to the desired setting.
 - let the lever click into position.

Eurocell Panels GSM 900 – Vertical Polarization

Adjustable Electrical Downtilt 3°–15°

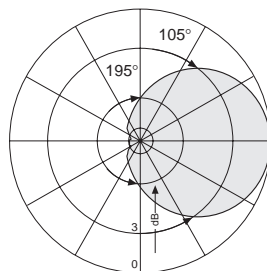
105° Half-power Beam Width

KATHREIN

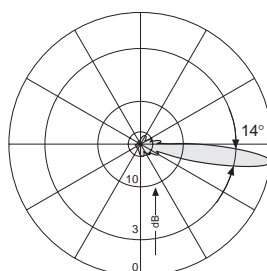
Antennen · Electronic

Panel 900 105° 13dBi 3–15°T

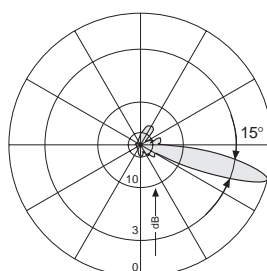
Type No.	736 078
Input	7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.4
Impedance	50 Ω
Gain	13 dBi
Polarization	Vertical
Front-to-back-ratio	> 22 dB
Half-power beam width	H-plane: 105°/ E-plane: 14° electr. downtilt: 3° – 15° adjustable in 1° steps sidelobe suppression: > 14 dB (0° ... 40° above horizon)
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	6 kg
Wind load	Frontal: 220 N (at 150 km/h) Lateral: 140 N (at 150 km/h) Rearside: 490 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 302 x 160 mm
Height/width/depth	1294 / 258 / 103 mm



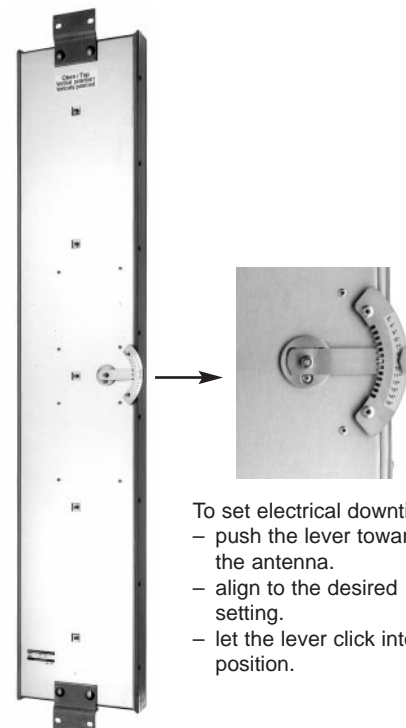
Horizontal Pattern



Vertical Pattern
7° Downtilt



Vertical Pattern
15° Downtilt



- To set electrical downtilt:
- push the lever towards the antenna.
 - align to the desired setting.
 - let the lever click into position.

Eurocell Panels GSM 900 – Vertical Polarization

Adjustable Electrical Downtilt 3°–15°

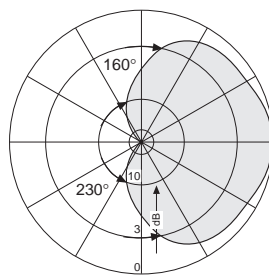
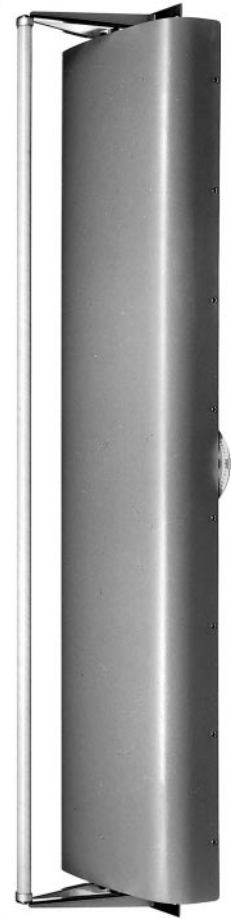
160° Half-power Beam Width

KATHREIN

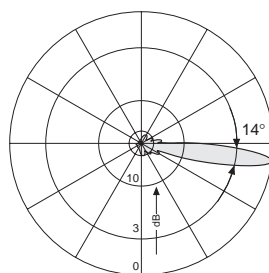
Antennen · Electronic

Panel 900 160° 11.5dBi 3–15°T

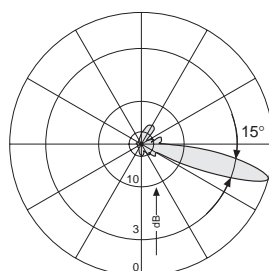
Type No.	738 018
Input	7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.5
Impedance	50 Ω
Gain	11.5 dBi
Polarization	Vertical
Front-to-back-ratio	> 25 dB
Half-power beam width	H-plane: 160°/ E-plane: 14° electr. downtilt: 3° – 15° adjustable in 1° steps sidelobe suppression: > 14 dB (0° ... 40° above horizon)
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	6.5 kg
Wind load	Frontal: 220 N (at 150 km/h) Lateral: 170 N (at 150 km/h) Rearside: 490 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 302 x 300 mm
Height/width/depth	1294 / 258 / 103 mm (284 mm incl. subreflector)



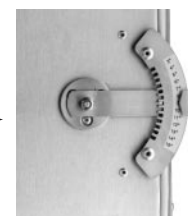
Horizontal Pattern



Vertical Pattern
7° Downtilt



Vertical Pattern
15° Downtilt



- To set electrical downtilt:
- push the lever towards the antenna.
 - align to the desired setting.
 - let the lever click into position.

Slim, unobtrusive design	This antenna family is especially suitable for installation at optically sensitive sites.
Flat fiberglass radome	The max. radome depth is only 69 mm. Fiberglass material guarantees optimum performance with regards to stability, stiffness, UV resistance and painting. The colour of the radome is grey.
Environmental influences	The design of Kathrein antennas is based on fundamental engineering knowledge and also on decades of practical experience, during which the various constructions and materials used have proved their outstanding reliability.
Environmental conditions	Kathrein cellular antennas are designed to operate under the environmental conditions as described in ETS 300 019-1-4 class 4.1 E. The antennas exceed this standard with regard to the following items: – Low temperature: – 55 °C – High temperature (dry): + 60 °C
Environmental tests	Kathrein antennas have passed environmental tests as recommended in ETS 300 019-2-4. The homogenous design of Kathrein's antenna families use identical modules and materials. Extensive tests have been performed on typical samples and modules.
Long service life	According to our own experience, the outstanding mechanical characteristics of Kathrein antennas result in an antenna service life of over 15 years.
Patented, gain-optimized radiating system	The reduction of the number of components down to just a few multi-functional parts has reduced the number of electrical and mechanical connection points, thus also reducing the intermodulation products (the indicated value refers to 3rd order products measured with 2 carriers of 20 W each).
Low intermodulation products (typically -150 dBc)	
Large variety of half-power beam widths and gains	Versions with half-power beam widths of 90° to 200° are available (with an additional subreflector). Various gain values of up to 16.5 dBi and electrical downtilt options will aid network planners to select the version most suitable for the intended purpose.
Electrical downtilt	
Excellent grounding	The Eurocell F-Panels are DC grounded according EN 50083-1. The inner conductors are DC grounded for DC loop monitoring.
Multi-functional installation hardware	The Eurocell F-Panels can be wall mounted without any additional hardware. For mast mounting, stainless steel brackets and mechanical downtilt kits are available. To assist the installation technicians in aligning the antennas, an azimuth adjustment tool can be supplied (see Accessories).



Vertical Polarization

Type	Type No.	Frequency range	Height	Connector position	Page
F-Panel 900 90° 7.5 dBi	736 622	872 – 960 MHz	262 mm	bottom or top	68
F-Panel 900 90° 7.5 dBi	736 854	872 – 960 MHz	262 mm	bottom or top	68
F-Panel 900 90° 10 dBi	736 855	872 – 960 MHz	502 mm	bottom or top	68
F-Panel 900 90° 12.5 dBi	736 668	872 – 960 MHz	982 mm	bottom or top	69
F-Panel 900 90° 12.5 dBi 10°T	736 623	872 – 960 MHz	982 mm	bottom	69
F-Panel 900 90° 14 dBi	736 858	872 – 960 MHz	1222 mm	bottom or top	70
F-Panel 900 90° 14 dBi 6°T	736 859	872 – 960 MHz	1222 mm	bottom	70
F-Panel 900 90° 15.5 dBi	736 863	872 – 960 MHz	1942 mm	bottom or top	71
F-Panel 900 90° 15.5 dBi 5°T	736 864	872 – 960 MHz	1942 mm	bottom	71
F-Panel 900 90° 16.5 dBi	736 866	872 – 960 MHz	2422 mm	bottom or top	72
F-Panel 900 90° 16.5 dBi 2°T	736 867	872 – 960 MHz	2422 mm	bottom	72
F-Panel 900 105° 9.5 dBi	736 870	872 – 960 MHz	502 mm	bottom or top	73
F-Panel 900 105° 12 dBi	736 871	872 – 960 MHz	982 mm	bottom or top	73
F-Panel 900 105° 13.5 dBi	736 873	872 – 960 MHz	1222 mm	bottom or top	74
F-Panel 900 105° 13.5 dBi 6°T	736 874	872 – 960 MHz	1222 mm	bottom	74
F-Panel 900 105° 15 dBi	736 878	872 – 960 MHz	1942 mm	bottom or top	75
F-Panel 900 105° 15 dBi 5°T	736 879	872 – 960 MHz	1942 mm	bottom	75
F-Panel 900 105° 16 dBi	736 881	872 – 960 MHz	2422 mm	bottom or top	76
F-Panel 900 160° 11 dBi	736 900	872 – 960 MHz	982 mm	bottom or top	77
F-Panel 900 160° 11 dBi 10°T	736 901	872 – 960 MHz	982 mm	bottom	77
F-Panel 900 160° 14 dBi	736 902	872 – 960 MHz	1942 mm	bottom or top	78
F-Panel 900 160° 14 dBi 5°T	736 904	872 – 960 MHz	1942 mm	bottom	78
F-Panel 900 160° 15 dBi 2°T	737 849	880 – 960 MHz	2422 mm	bottom	79
F-Panel 900 200° 10 dBi	737 377	872 – 960 MHz	982 mm	bottom or top	80
F-Panel 900 200° 10 dBi 10°T	737 378	872 – 960 MHz	982 mm	bottom	80
F-Panel 900 200° 13 dBi	737 379	872 – 960 MHz	1942 mm	bottom or top	81
F-Panel 900 200° 13 dBi 5°T	737 381	872 – 960 MHz	1942 mm	bottom	81
F-Panel 900 200° 14 dBi 2°T	737 383	880 – 960 MHz	2422 mm	bottom	82

Adjustable Electrical Downtilt – Vertical Polarization

Type	Type No.	Frequency range	Height	Connector position	Page
F-Panel 900 90° 13.5 dBi 4–14°T	738 580	880 – 960 MHz	1440 mm	bottom	83

Multi-unit Panels – Vertical Polarization

2-F-Panel 900 90° 7.5 dBi	739 303	880 – 960 MHz	502 mm	bottom	84
2-F-Panel 900 90° 10 dBi	739 304	880 – 960 MHz	982 mm	bottom	84
2-F-Panel 900 90° 14 dBi	738 020	872 – 960 MHz	2422 mm	bottom	85
2-F-Panel 900 90° 14 dBi 6°T	738 021	872 – 960 MHz	2422 mm	bottom	85
2-F-Panel 900 105° 13.5 dBi	738 140	872 – 960 MHz	2422 mm	bottom	86
2-F-Panel 900 105° 13.5 dBi 6°T	738 141	872 – 960 MHz	2422 mm	bottom	86
3-F-Panel 900 90° 12.5 dBi	738 144	872 – 960 MHz	3041 mm	bottom	87
3-F-Panel 900 90° 12.5 dBi 10°T	738 145	872 – 960 MHz	3041 mm	bottom	87
3-F-Panel 900 105° 12 dBi	738 142	872 – 960 MHz	3041 mm	bottom	88
3-F-Panel 900 105° 12 dBi 10°T	738 143	872 – 960 MHz	3041 mm	bottom	88

Dual Polarization +45°/-45°

Type	Type No.	Frequency range	Height	Connector position	Page
XPol F-Panel 1800 33° 19.5 dBi 2°T	739 927	1710 – 1880 MHz	982 mm	bottom	89
XPol F-Panel 1800 65° 15.5 dBi	739 490	1710 – 1880 MHz	662 mm	bottom or top	90
XPol F-Panel 1800 65° 15.5 dBi 6°T	739 491	1710 – 1880 MHz	662 mm	bottom	90
XPol F-Panel 1800 65° 15.5 dBi 12°T	741 264	1710 – 1880 MHz	662 mm	bottom	90
XPol F-Panel 1800 65° 18 dBi	739 494	1710 – 1880 MHz	1302 mm	bottom or top	91
XPol F-Panel 1800/1900 65° 18 dBi 2°T	739 495	1710 – 1990 MHz	1302 mm	bottom	91
XPol F-Panel 1800/1900 65° 18 dBi 2°T	741 444	1710 – 1990 MHz	1302 mm	top	92
XPol F-Panel 1800/1900 65° 18 dBi 6°T	739 496	1710 – 1990 MHz	1302 mm	bottom	92
XPol F-Panel 1800/1900 65° 18 dBi 6°T	741 445	1710 – 1990 MHz	1302 mm	top	92
XPol F-Panel 1800/1900 90° 8 dBi	739 695	1710 – 1990 MHz	174 mm	bottom or top	93
XPol F-Panel 1800 90° 14 dBi	739 698	1710 – 1880 MHz	702 mm	bottom or top	93
XPol F-Panel 1800 90° 14 dBi 4°T	741 214	1710 – 1880 MHz	702 mm	bottom	94
XPol F-Panel 1800 90° 16.5 dBi 2°T	739 707	1710 – 1880 MHz	1302 mm	bottom	94
XPol F-Panel 1800 90° 17.5 dBi 2°T	739 710	1710 – 1880 MHz	1902 mm	bottom	95

Vertical Polarization

F-Panel 1800 33° 12.5 dBi	732 329	1710 – 1900 MHz	209 mm	bottom or top	96
F-Panel 1800/1900 33° 15 dBi	739 129	1710 – 1990 MHz	342 mm	bottom or top	96
F-Panel 1800/1900 33° 18 dBi	739 131	1710 – 1990 MHz	662 mm	bottom or top	97
F-Panel 1800/1900 33° 20 dBi	739 132	1710 – 1990 MHz	982 mm	bottom or top	97
F-Panel 1800/1900 33° 21 dBi	739 134	1710 – 1990 MHz	1302 mm	bottom or top	98
F-Panel 1800/1900 33° 22.5 dBi	739 136	1710 – 1990 MHz	1942 mm	bottom or top	98

Vertical Polarization

Type	Type No.	Frequency range	Height	Connector position	Page
F-Panel 1800 65° 10 dBi	734 304	1710 – 1900 MHz	182 mm	bottom or top	99
F-Panel 1800 65° 12.5 dBi	734 306	1710 – 1900 MHz	342 mm	bottom or top	99
F-Panel 1800 65° 14 dBi	734 308	1710 – 1900 MHz	502 mm	bottom or top	100
F-Panel 1800 65° 15.5 dBi	734 310	1710 – 1900 MHz	662 mm	bottom or top	100
F-Panel 1800 65° 15.5 dBi 6°T	737 950	1710 – 1900 MHz	662 mm	bottom	101
F-Panel 1800 65° 17 dBi	734 312	1710 – 1900 MHz	982 mm	bottom or top	101
F-Panel 1800 65° 17 dBi 2°T	735 141	1710 – 1900 MHz	982 mm	bottom	102
F-Panel 1800 65° 16.5 dBi 8°T	736 016	1710 – 1900 MHz	982 mm	bottom	102
F-Panel 1800 65° 18 dBi	734 314	1710 – 1900 MHz	1302 mm	bottom or top	102
F-Panel 1800 65° 18 dBi 2°T	735 147	1710 – 1900 MHz	1302 mm	bottom	103
F-Panel 1800 65° 17.5 dBi 6°T	736 018	1710 – 1900 MHz	1302 mm	bottom	103
F-Panel 1800 65° 19.5 dBi	734 316	1710 – 1900 MHz	1942 mm	bottom or top	103
F-Panel 1800 90° 8 dBi	734 318	1710 – 1900 MHz	182 mm	bottom or top	104
F-Panel 1800 90° 11 dBi	734 320	1710 – 1900 MHz	342 mm	bottom or top	104
F-Panel 1800 90° 12.5 dBi	734 322	1710 – 1900 MHz	502 mm	bottom or top	105
F-Panel 1800 90° 14 dBi	734 324	1710 – 1900 MHz	662 mm	bottom	105
F-Panel 1800 90° 15.5 dBi 2°T	734 326	1710 – 1900 MHz	982 mm	bottom	106
F-Panel 1800 90° 16,5 dBi	739 714	1710 – 1900 MHz	1302 mm	bottom or top	106
F-Panel 1800 90° 16.5 dBi 2°T	734 328	1710 – 1900 MHz	1302 mm	bottom	106
F-Panel 1800 90° 18 dBi	739 715	1710 – 1900 MHz	1942 mm	bottom or top	107
F-Panel 1800 90° 17.5 dBi 2°T	734 330	1710 – 1900 MHz	1942 mm	bottom	107
F-Panel 1800 105° 10.5 dBi	734 334	1710 – 1900 MHz	342 mm	bottom or top	108
F-Panel 1800 105° 13.5 dBi	734 338	1710 – 1900 MHz	662 mm	bottom or top	108
F-Panel 1800 105° 16 dBi 2°T	734 342	1710 – 1900 MHz	1302 mm	bottom	109
F-Panel 1800 160° 13 dBi 2°T	732 340	1710 – 1900 MHz	982 mm	bottom	110
F-Panel 1800 160° 15.5 dBi 2°T	732 344	1710 – 1900 MHz	1942 mm	bottom	110

Inverted antennas on request

PCS – Vertical Polarization

Type	Type No.	Frequency range	Height	Connector position	Page
F-Panel 1800/1900 33° 15 dBi	739 129	1710 – 1990 MHz	342 mm	bottom or top	96
F-Panel 1800/1900 33° 18 dBi	739 131	1710 – 1990 MHz	662 mm	bottom or top	97
F-Panel 1800/1900 33° 20 dBi	739 132	1710 – 1990 MHz	982 mm	bottom or top	97
F-Panel 1800/1900 33° 21 dBi	739 134	1710 – 1990 MHz	1302 mm	bottom or top	98
F-Panel 1800/1900 33° 22.5 dBi	739 136	1710 – 1990 MHz	1942 mm	bottom or top	98
F-Panel 1900 63° 18 dBi	736 421	1850 – 1990 MHz	1302 mm	bottom or top	111
F-Panel 1900 63° 18 dBi 2° T	736 422	1850 – 1990 MHz	1302 mm	bottom	111
F-Panel 1900 90° 16.5 dBi	736 432	1850 – 1990 MHz	1302 mm	bottom or top	112
F-Panel 1900 90° 18 dBi	736 434	1850 – 1990 MHz	1942 mm	bottom or top	113
F-Panel 1900 90° 18 dBi 2° T	736 436	1850 – 1990 MHz	1942 mm	bottom	113

Additional versions on request

DECT – Vertical Polarization

Connector: TNC-female

Type	Type No.	Frequency range	Height	Connector position	Page
F-Panel DECT 60° 10 dBi	738 161	1880 – 1930 MHz	182 mm	bottom or top	114
F-Panel DECT 60° 13 dBi	738 162	1880 – 1930 MHz	342 mm	bottom or top	114
F-Panel DECT 60° 14.5 dBi	738 173	1880 – 1930 MHz	502 mm	bottom or top	115
F-Panel DECT 60° 16 dBi	738 163	1880 – 1930 MHz	662 mm	bottom or top	115
F-Panel DECT 60° 17.5 dBi	738 174	1880 – 1930 MHz	982 mm	bottom or top	116
F-Panel DECT 60° 18.5 dBi	738 164	1880 – 1930 MHz	1302 mm	bottom or top	116
F-Panel DECT 90° 8.5 dBi	738 165	1880 – 1930 MHz	182 mm	bottom or top	117
F-Panel DECT 90° 12.5 dBi	738 166	1880 – 1930 MHz	502 mm	bottom or top	117
F-Panel DECT 90° 15.5 dBi	738 167	1880 – 1930 MHz	982 mm	bottom or top	118
F-Panel DECT 90° 18 dBi	738 168	1880 – 1930 MHz	1942 mm	bottom or top	118

Vertical Polarization

Type	Type No.	Frequency range	Height	Connector position	Page
F-Panel 3600 60° 17.5 dBi	741 627	3400 – 3800 MHz	662 mm	bottom or top	119
F-Panel 3600 90° 16 dBi	741 628	3400 – 3800 MHz	662 mm	bottom or top	119
F-Panel 3600 120° 15 dBi	741 629	3400 – 3800 MHz	662 mm	bottom or top	120
F-Panel 3600 180° 13 dBi	741 630	3400 – 3800 MHz	662 mm	bottom or top	120

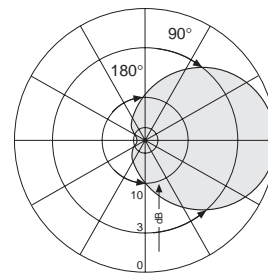
Eurocell F-Panels GSM 900

Vertical Polarization

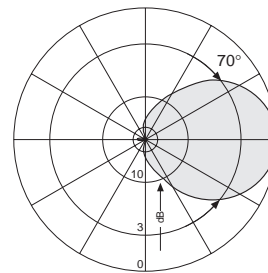
90° Half-power Beam Width

F-Panel 900 90° 7.5dBi

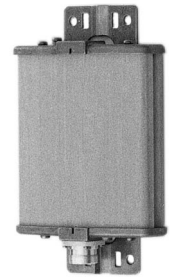
Type No.	736 622	736 854
Input	7-16 female	N female
Connector position	Bottom or top	
Frequency range	872 – 960 MHz	
VSWR	< 1.5	
Gain	7.5 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back ratio	> 20 dB	
Half-power beam width	H-plane: 90°/ E-plane: 70°	
Max. power	350 Watt (at 50 °C ambient temperature)	
Weight	1.5 kg	
Wind load	Frontal: 45 N (at 150 km/h)	Lateral: 20 N (at 150 km/h)
	Rearside: 60 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	369 x 172 x 72 mm	
Height/width/depth	262 / 155 / 49 mm	



Horizontal Pattern

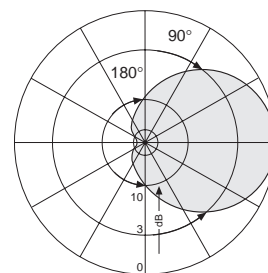


Vertical Pattern

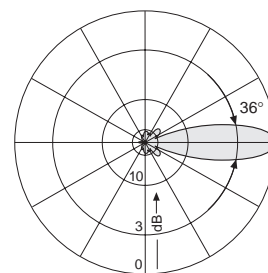


F-Panel 900 90° 10dBi

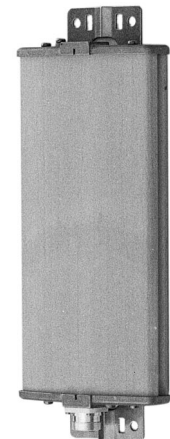
Type No.	736 855
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.4
Gain	10 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 36°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	2.3 kg
Wind load	Frontal: 90 N (at 150 km/h)
	Lateral: 40 N (at 150 km/h)
	Rearside: 110 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	604 x 172 x 72 mm
Height/width/depth	502 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern



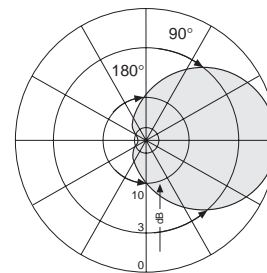
Eurocell F-Panels GSM 900

Vertical Polarization

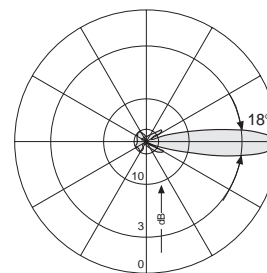
90° Half-power Beam Width

F-Panel 900 90° 12.5dBi

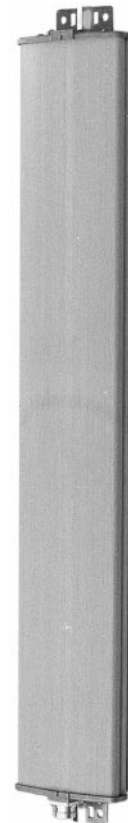
Type No.	736 668
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.3
Gain	12.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 18°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	3.8 kg
Wind load	Frontal: 180 N (at 150 km/h) Lateral: 80 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1084 x 172 x 72 mm
Height/width/depth	982 / 155 / 49 mm



Horizontal Pattern

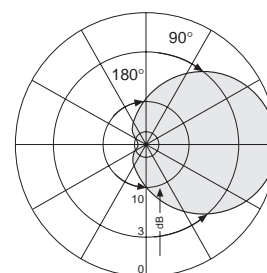


Vertical Pattern

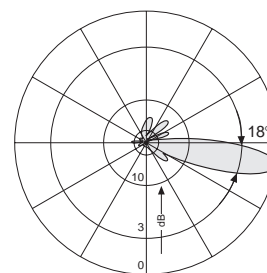


F-Panel 900 90° 12.5dBi 10°T

Type No.	736 623
Input	7-16 female
Connector position	Bottom
Frequency range	872 – 960 MHz
VSWR	< 1.3
Gain	12.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 18° 10° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	3.8 kg
Wind load	Frontal: 180 N (at 150 km/h) Lateral: 80 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1084 x 172 x 72 mm
Height/width/depth	982 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern
10° electr. downtilt



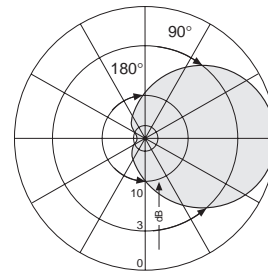
Eurocell F-Panels GSM 900

Vertical Polarization

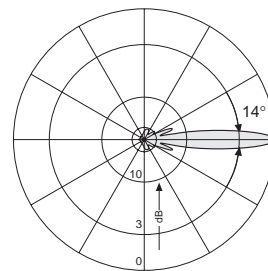
90° Half-power Beam Width

F-Panel 900 90° 14dBi

Type No.	736 858
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.3
Gain	14 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 14°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	4.6 kg
Wind load	Frontal: 230 N (at 150 km/h) Lateral: 100 N (at 150 km/h) Rearside: 290 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1324 x 172 x 72 mm
Height/width/depth	1222 / 155 / 49 mm



Horizontal Pattern

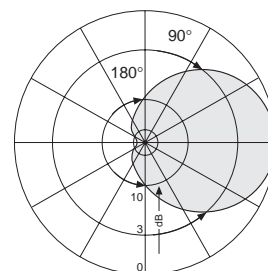


Vertical Pattern

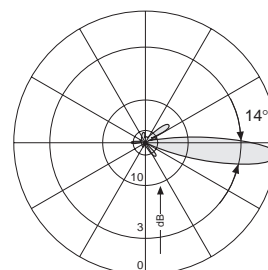


F-Panel 900 90° 14dBi 6°T

Type No.	736 859
Input	7-16 female
Connector position	Bottom
Frequency range	872 – 960 MHz
VSWR	< 1.3
Gain	14 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 14° 6° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	4.6 kg
Wind load	Frontal: 230 N (at 150 km/h) Lateral: 100 N (at 150 km/h) Rearside: 290 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1324 x 172 x 72 mm
Height/width/depth	1222 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern
6° electr. downtilt



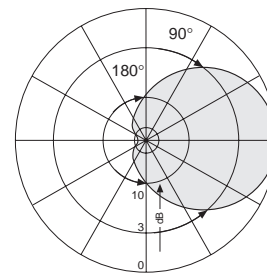
Eurocell F-Panels GSM 900

Vertical Polarization

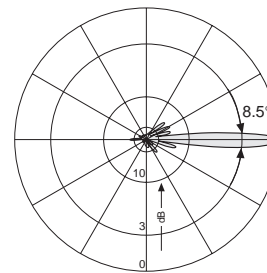
90° Half-power Beam Width

F-Panel 900 90° 15.5dBi

Type No.	736 863
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.3
Gain	15.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 8.5°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	6.8 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 180 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2044 x 172 x 72 mm
Height/width/depth	1942 / 155 / 49 mm



Horizontal Pattern

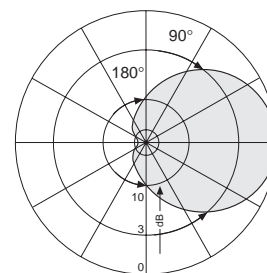


Vertical Pattern

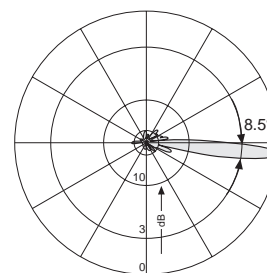


F-Panel 900 90° 15.5dBi 5°T

Type No.	736 864
Input	7-16 female
Connector position	Bottom
Frequency range	872 – 960 MHz
VSWR	< 1.3
Gain	15.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 8.5° 5° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	6.8 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 180 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2044 x 172 x 72 mm
Height/width/depth	1942 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern
5° electr. downtilt

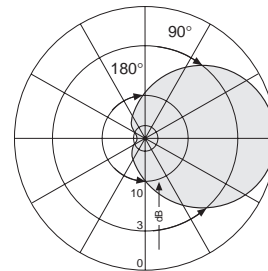
Eurocell F-Panels GSM 900

Vertical Polarization

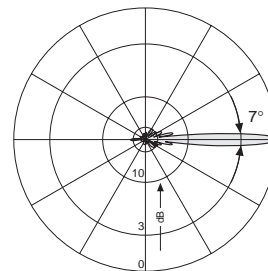
90° Half-power Beam Width

F-Panel 900 90° 16.5dBi

Type No.	736 866
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.4
Gain	16.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 7°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	9 kg
Wind load	Frontal: 490 N (at 150 km/h) Lateral: 230 N (at 150 km/h) Rearside: 620 N (at 150 km/h)
Max. wind velocity	180 km/h
Packing size	2534 x 172 x 72 mm
Height/width/depth	2422 / 155 / 49 mm



Horizontal Pattern

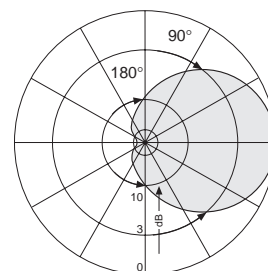


Vertical Pattern

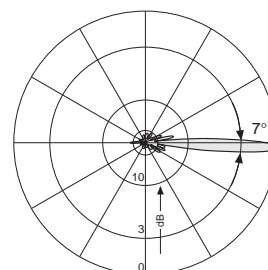


F-Panel 900 90° 16.5dBi 2°T

Type No.	736 867
Input	7-16 female
Connector position	Bottom
Frequency range	872 – 960 MHz
VSWR	< 1.3
Gain	16.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 7° 2° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	9 kg
Wind load	Frontal: 490 N (at 150 km/h) Lateral: 230 N (at 150 km/h) Rearside: 620 N (at 150 km/h)
Max. wind velocity	180 km/h
Packing size	2534 x 172 x 72 mm
Height/width/depth	2422 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern
2° electr. downtilt

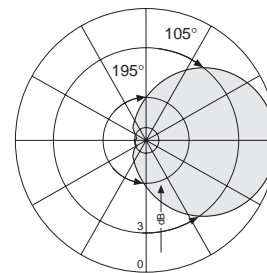
Eurocell F-Panels GSM 900

Vertical Polarization

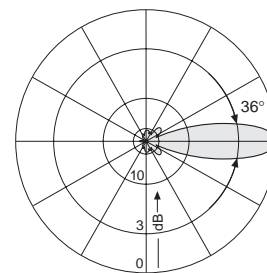
105° Half-power Beam Width

F-Panel 900 105° 9.5dBi

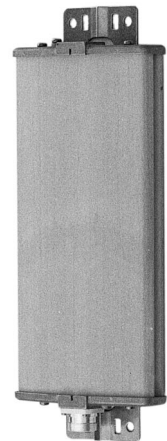
Type No.	736 870
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.5
Gain	9.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 105°/ E-plane: 36°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	2.3 kg
Wind load	Frontal: 90 N (at 150 km/h) Lateral: 40 N (at 150 km/h) Rearside: 110 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	604 x 172 x 72 mm
Height/width/depth	502 / 155 / 49 mm



Horizontal Pattern

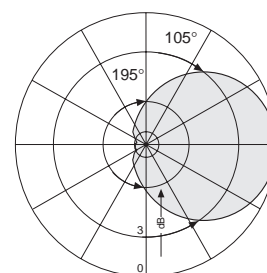


Vertical Pattern

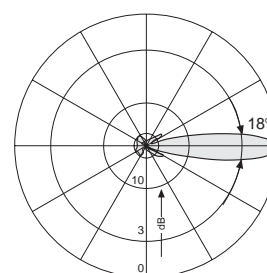


F-Panel 900 105° 12dBi

Type No.	736 871
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.5
Gain	12 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 105°/ E-plane: 18°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	3.8 kg
Wind load	Frontal: 180 N (at 150 km/h) Lateral: 80 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1084 x 172 x 72 mm
Height/width/depth	982 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern



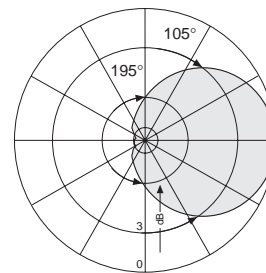
Eurocell F-Panels GSM 900

Vertical Polarization

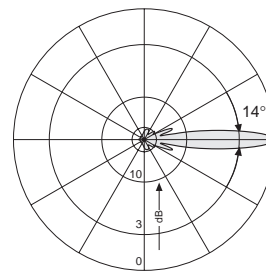
105° Half-power Beam Width

F-Panel 900 105° 13.5dBi

Type No.	736 873
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.5
Gain	13.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 105°/ E-plane: 14°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	4.6 kg
Wind load	Frontal: 230 N (at 150 km/h) Lateral: 100 N (at 150 km/h) Rearside: 290 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1324 x 172 x 72 mm
Height/width/depth	1222 / 155 / 49 mm



Horizontal Pattern

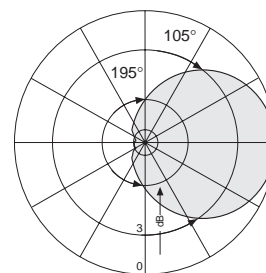


Vertical Pattern

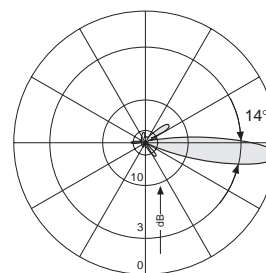


F-Panel 900 105° 13.5dBi 6°T

Type No.	736 874
Input	7-16 female
Connector position	Bottom
Frequency range	872 – 960 MHz
VSWR	< 1.5
Gain	13.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 105°/ E-plane: 14° 6° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	4.6 kg
Wind load	Frontal: 230 N (at 150 km/h) Lateral: 100 N (at 150 km/h) Rearside: 290 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1324 x 172 x 72 mm
Height/width/depth	1222 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern
6° electr. downtilt



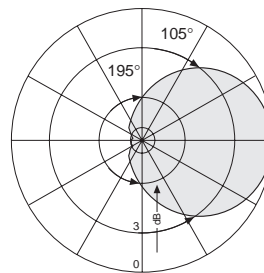
Eurocell F-Panels GSM 900

Vertical Polarization

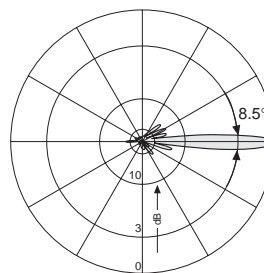
105° Half-power Beam Width

F-Panel 900 105° 15dBi

Type No.	736 878
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.5
Gain	15 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 105°/ E-plane: 8.5°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	6.8 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 180 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2044 x 172 x 72 mm
Height/width/depth	1942 / 155 / 49 mm



Horizontal Pattern

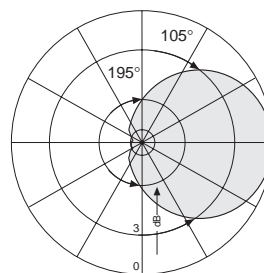


Vertical Pattern

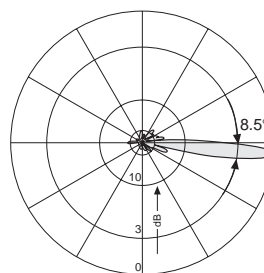


F-Panel 900 105° 15dBi 5°T

Type No.	736 879
Input	7-16 female
Connector position	Bottom
Frequency range	872 – 960 MHz
VSWR	< 1.5
Gain	15 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 105°/ E-plane: 8.5° 5° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	6.8 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 180 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2044 x 172 x 72 mm
Height/width/depth	1942 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern
5° electr. downtilt

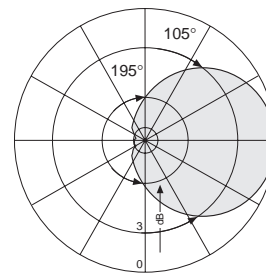
Eurocell F-Panels GSM 900

Vertical Polarization

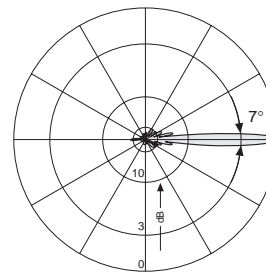
105° Half-power Beam Width

F-Panel 900 105° 16dBi

Type No.	736 881
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.5
Gain	16 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 105°/ E-plane: 7°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	9 kg
Wind load	Frontal: 490 N (at 150 km/h) Lateral: 230 N (at 150 km/h) Rearside: 620 N (at 150 km/h)
Max. wind velocity	180 km/h
Packing size	2534 x 172 x 72 mm
Height/width/depth	2422 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern



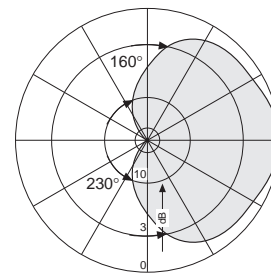
Eurocell F-Panels GSM 900

Vertical Polarization

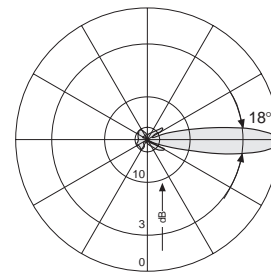
160° Half-power Beam Width

F-Panel 900 160° 11dBi

Type No.	736 900
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.4
Gain	11 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 160°/ E-plane: 18°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	5 kg
Wind load	Frontal: 180 N (at 150 km/h) Lateral: 110 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1087 x 172 x 259 mm
Height/width/depth	982 / 155 / 49 mm (224 mm incl. Subreflector)



Horizontal Pattern

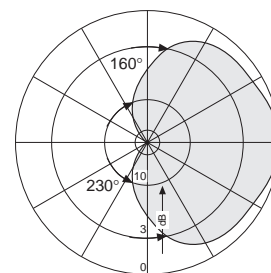


Vertical Pattern

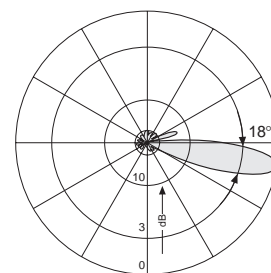


F-Panel 900 160° 11dBi 10°T

Type No.	736 901
Input	7-16 female
Connector position	Bottom
Frequency range	872 – 960 MHz
VSWR	< 1.3
Gain	11 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 160°/ E-plane: 18° 10° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	5 kg
Wind load	Frontal: 180 N (at 150 km/h) Lateral: 110 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1087 x 172 x 259 mm
Height/width/depth	982 / 155 / 49 mm (224 mm incl. Subreflector)



Horizontal Pattern



Vertical Pattern
10° electr. downtilt



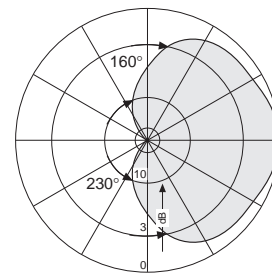
Eurocell F-Panels GSM 900

Vertical Polarization

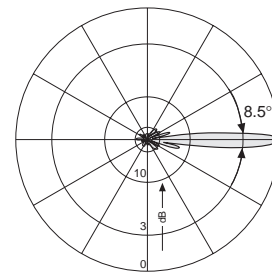
160° Half-power Beam Width

F-Panel 900 160° 14dBi

Type No.	736 902
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.4
Gain	14 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 160°/ E-plane: 8.5°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	7 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 230 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2047 x 172 x 259 mm
Height/width/depth	1942 / 155 / 49 mm (224 mm incl. Subreflector)



Horizontal Pattern

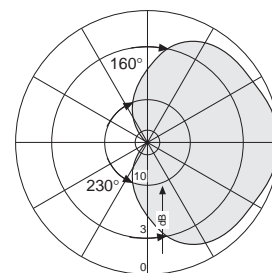


Vertical Pattern

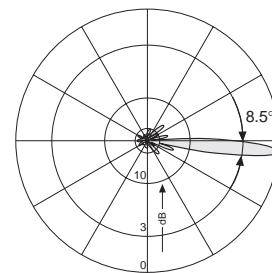


F-Panel 900 160° 14dBi 5°T

Type No.	736 904
Input	7-16 female
Connector position	Bottom
Frequency range	872 – 960 MHz
VSWR	< 1.3
Gain	14 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 160°/ E-plane: 8.5° 5° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	6.8 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 230 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2047 x 172 x 259 mm
Height/width/depth	1942 / 155 / 49 mm (224 mm incl. Subreflector)



Horizontal Pattern



Vertical Pattern
5° electr. downtilt

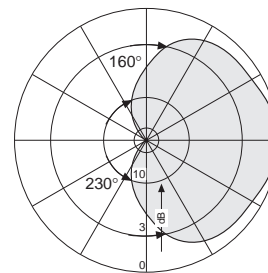
Eurocell F-Panels GSM 900

Vertical Polarization

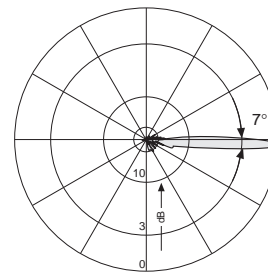
160° Half-power Beam Width

F-Panel 900 160° 15dBi 2°T

Type No.	737 849
Input	7-16 female
Connector position	Bottom
Frequency range	880 – 960 MHz
VSWR	< 1.3
Gain	15 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 160°/ E-plane: 7° 2° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	10 kg
Wind load	Frontal: 490 N (at 150 km/h) Lateral: 290 N (at 150 km/h) Rearside: 620 N (at 150 km/h)
Max. wind velocity	180 km/h
Packing size	2527 x 177 x 259 mm
Height/width/depth	2422 / 155 / 49 mm (224 mm incl. Subreflector)



Horizontal Pattern



Vertical Pattern
2° electr. downtilt



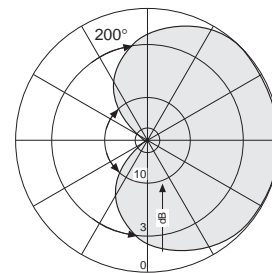
Eurocell F-Panels GSM 900

Vertical Polarization

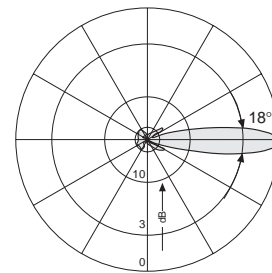
200° Half-power Beam Width

F-Panel 900 200° 10dBi

Type No.	737 377
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.4
Gain	10 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 200°/ E-plane: 18°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	5 kg
Wind load	Frontal: 180 N (at 150 km/h) Lateral: 110 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1087 x 172 x 259 mm
Height/width/depth	982 / 155 / 49 mm (224 mm incl. Subreflector)



Horizontal Pattern

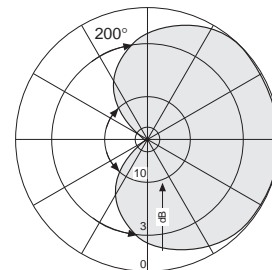


Vertical Pattern

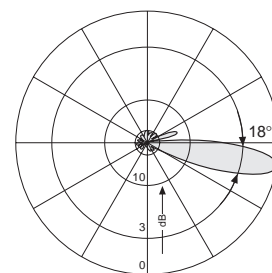


F-Panel 900 200° 10dBi 10°T

Type No.	737 378
Input	7-16 female
Connector position	Bottom
Frequency range	872 – 960 MHz
VSWR	< 1.4
Gain	10 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 200°/ E-plane: 18° 10° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	5 kg
Wind load	Frontal: 180 N (at 150 km/h) Lateral: 110 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1087 x 172 x 259 mm
Height/width/depth	982 / 155 / 49 mm (224 mm incl. Subreflector)



Horizontal Pattern



Vertical Pattern
10° electr. downtilt



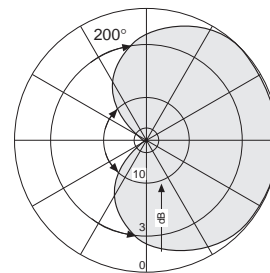
Eurocell F-Panels GSM 900

Vertical Polarization

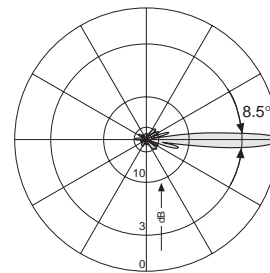
200° Half-power Beam Width

F-Panel 900 200° 13dBi

Type No.	737 379
Input	7-16 female
Connector position	Bottom or top
Frequency range	872 – 960 MHz
VSWR	< 1.4
Gain	13 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 200°/ E-plane: 8.5°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	7 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 230 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2047 x 172 x 259 mm
Height/width/depth	1942 / 155 / 49 mm (224 mm incl. Subreflector)



Horizontal Pattern

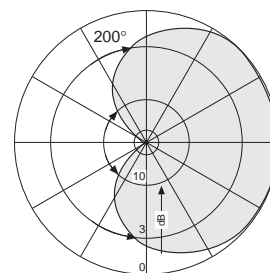


Vertical Pattern

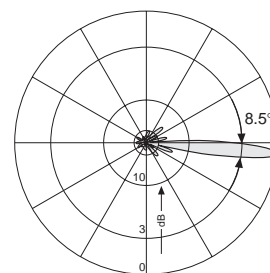


F-Panel 900 200° 13dBi 5°T

Type No.	737 381
Input	7-16 female
Connector position	Bottom
Frequency range	872 – 960 MHz
VSWR	< 1.4
Gain	13 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 200°/ E-plane: 8.5° 5° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	7 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 230 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2047 x 172 x 259 mm
Height/width/depth	1942 / 155 / 49 mm (224 mm incl. Subreflector)



Horizontal Pattern



Vertical Pattern
5° electr. downtilt

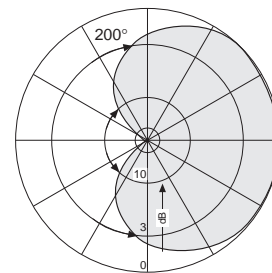
Eurocell F-Panels GSM 900

Vertical Polarization

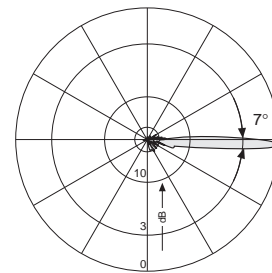
200° Half-power Beam Width

F-Panel 900 200° 14dBi 2°T

Type No.	737 383
Input	7-16 female
Connector position	Bottom
Frequency range	880 – 960 MHz
VSWR	< 1.4
Gain	14 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 200° / E-plane: 7° 2° electr. downtilt
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	10 kg
Wind load	Frontal: 490 N (at 150 km/h) Lateral: 290 N (at 150 km/h) Rearside: 620 N (at 150 km/h)
Max. wind velocity	180 km/h
Packing size	2527 x 172 x 259 mm
Height/width/depth	2422 / 155 / 49 mm (224 mm incl. Subreflector)



Horizontal Pattern



Vertical Pattern
2° electr. downtilt



Eurocell F-Panel GSM 900 – Vertical Polarization **KATHREIN**

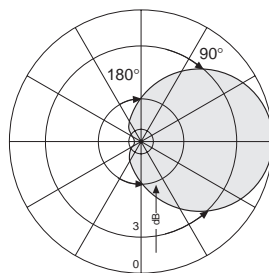
Adjustable Electrical Downtilt 4° – 14°

90° Half-power Beam Width

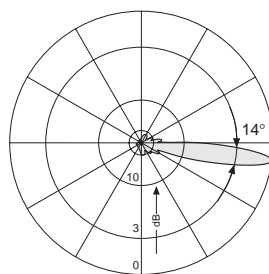
Antennen · Electronic

F-Panel 900 90° 13dBi 4° – 14°

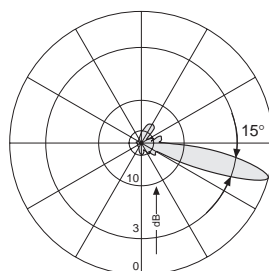
Type No.	738 580
Input	7-16 female
Connector position	Bottom
Frequency range	880 – 960 MHz
VSWR	< 1.5
Gain	13 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 14° 4°–14° electr. downtilt continuously adjustable
Adjustment mechanism	Bottom
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	4.6 kg
Wind load	Frontal: 270 N (at 150 km/h) Lateral: 120 N (at 150 km/h) Rearside: 340 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1536 x 172 x 72 mm
Height/width/depth	1440 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern
7° Downtilt



Vertical Pattern
14° Downtilt

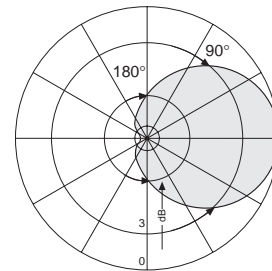
Eurocell F-Panels GSM 900 – Multi-unit

2 Unit Antennas

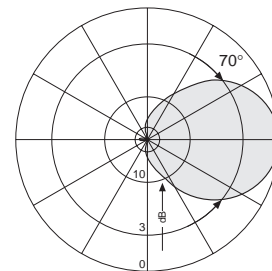
90° Half-power Beam Width

2F-Panel 900 90° 7.5dBi

Type No.	739 303
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	880 – 960 MHz
VSWR	< 1.5
Gain	2 x 7.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 70°
Isolation	> 30 dB
Max. power per input	300 Watt (at 50 °C ambient temperature)
Weight	2.3 kg
Wind load	Frontal: 125 N (at 150 km/h) Lateral: 30 N (at 150 km/h) Rearside: 125 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	604 x 172 x 72 mm
Height/width/depth	502 / 155 / 49 mm



Horizontal Pattern

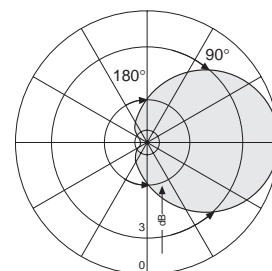


Vertical Pattern

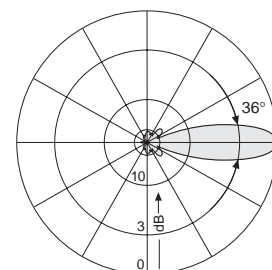


2F-Panel 900 90° 10dBi

Type No.	739 304
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	880 – 960 MHz
VSWR	< 1.5
Gain	2 x 10 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 36°
Isolation	> 30 dB
Max. power per input	300 Watt (at 50 °C ambient temperature)
Weight	3.8 kg
Wind load	Frontal: 180 N (at 150 km/h) Lateral: 80 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1084 x 172 x 72 mm
Height/width/depth	982 / 155 / 49 mm



Horizontal Pattern



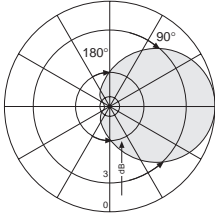
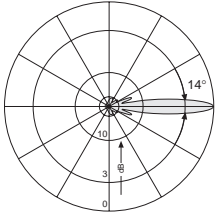
Vertical Pattern



Eurocell F-Panels GSM 900 – Multi-unit

2 Unit Antennas

90° Half-power Beam Width

Antenna	2-F-Panel 900 90° 14dBi	2-F-Panel 900 90° 14dBi 6°T
Type No.	738 020	738 021
Input Connector position	2 x 7-16 female Bottom or top Bottom: Connector T = Top system Connector B = Bottom system Top: Connector T = Bottom system Connector B = Top system	2 x 7-16 female Bottom
Frequency range	872 – 960 MHz	872 – 960 MHz
VSWR	< 1.4	< 1.4
Gain	14 dBi bottom system 13.5 dBi top system	14 dBi bottom system 13.5 dBi top system
Impedance	50 Ω	50 Ω
Polarization	Vertical	Vertical
Front-to-back-ratio	> 20 dB	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 14°	H-plane: 90°/ E-plane: 14°, 6°T
Isolation	> 36 dB	> 36 dB
Max. power per input	400 Watt (at 50 °C ambient temperature)	400 Watt (at 50 °C ambient temperature)
Weight	9 kg	9 kg
Wind load	Frontal: 490 N (at 150 km/h) Lateral: 230 N (at 150 km/h) Rearside: 620 N (at 150 km/h)	Frontal: 490 N (at 150 km/h) Lateral: 230 N (at 150 km/h) Rearside: 620 N (at 150 km/h)
Max. wind velocity	180 km/h	180 km/h
Height/width/depth	2422 / 155 / 49 mm	2422 / 155 / 49 mm
		

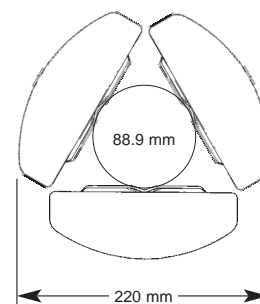


Components for a 6-unit GSM antenna for 3 sectors

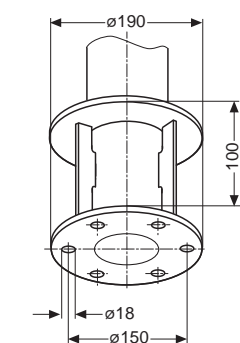
Using the mast type no. 738 019 and the azimuth adjustment flange type no. 737 649, the 2-unit antennas type no. 738 020 or 738 021 can be combined to form a 6-unit antenna.

Data of the 6-unit antenna:

Length	2800 mm (incl. mast)
Diameter	220 mm
Weight	70 kg
Wind load	600 N (at 150 km/h)
Max. wind velocity	180 km/h
Connector position	Bottom (6 x 7-16 female)
Mounting	By means of 190 mm diameter standard flange.
Material	Mast and flange: Hot dip galvanized steel. Antennas: Completely closed fiberglass radome. Colour: Grey.
Isolation	All screws and nuts: Stainless steel. vertical > 36 dB horizontal > 45 dB
Grounding	All metal parts of the antenna as well as the inner conductors are DC grounded.



Top view



Flange base of the mast
738 019



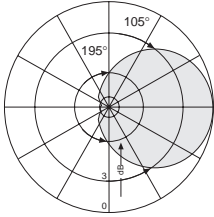
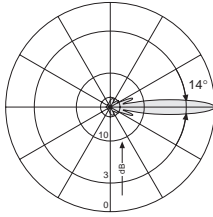
The components must be ordered separately:

	Description	Type no.	Quantity
Example 1:	2-F-panel 900 90° 14 dBi	738 020	3 pieces
	Mast	738 019	1 piece
	Azimuth adjustment flange	737 649	1 piece
Example 2:	2-F-panel 900 90° 14 dBi	738 020	1 piece
	2-F-panel 900 90° 14dBi 6°T	738 021	2 pieces
	Mast	738 019	1 piece
	Azimuth adjustment flange	737 649	1 piece

Eurocell F-Panels GSM 900 – Multi-unit

2 Unit Antennas

105° Half-power Beam Width

Antenna	2-F-Panel 900 105° 13.5dBi	2-F-Panel 900 105° 13.5dBi 6°T
Type No.	738 140	738 141
Input Connector position	2 x 7-16 female Bottom or top Bottom: Connector T = Top system Connector B = Bottom system Top: Connector T = Bottom system Connector B = Top system	2 x 7-16 female Bottom
Frequency range	872 – 960 MHz	872 – 960 MHz
VSWR	< 1.5	< 1.5
Gain	13.5 dBi bottom system 13 dBi top system	13.5 dBi bottom system 13 dBi top system
Impedance	50 Ω	50 Ω
Polarization	Vertical	Vertical
Front-to-back-ratio	> 20 dB	> 20 dB
Half-power beam width	H-plane: 105°/ E-plane: 14°	H-plane: 105°/ E-plane: 14°, 6°T
Isolation	> 36 dB	> 36 dB
Max. power	400 Watt (at 50 °C ambient temperature)	400 Watt (at 50 °C ambient temperature)
Weight	9 kg	9 kg
Wind load	Frontal: 490 N (at 150 km/h) Lateral: 230 N (at 150 km/h) Rearside: 620 N (at 150 km/h)	Frontal: 490 N (at 150 km/h) Lateral: 230 N (at 150 km/h) Rearside: 620 N (at 150 km/h)
Max. wind velocity	180 km/h	180 km/h
Height/width/depth	2422 / 155 / 49 mm	2422 / 155 / 49 mm
		

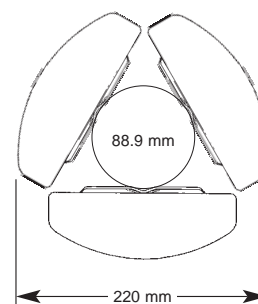


Components for a 6-unit GSM antenna for 3 sectors

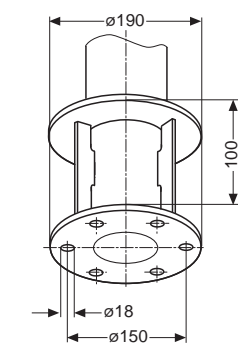
Using the mast type no. 738 019 and the azimuth adjustment flange type no. 737 649, the 2-unit antennas type no. 738 140 or 738 141 can be combined to form a 6-unit antenna.

Data of the 6-unit antenna:

Length	2800 mm (incl. mast)
Diameter	220 mm
Weight	70 kg
Wind load	600 N (at 150 km/h)
Max. wind velocity	180 km/h
Connector position	Bottom (6 x 7-16 female)
Mounting	By means of 190 mm diameter standard flange.
Material	Mast and flange: Hot dip galvanized steel. Antennas: Completely closed fiberglass radome. Colour: Grey.
Decoupling	All screws and nuts: Stainless steel. vertical > 36 dB horizontal > 40 dB
Grounding	All metal parts of the antenna as well as the inner conductors are DC grounded.



Top view



Flange base of the mast
738 019

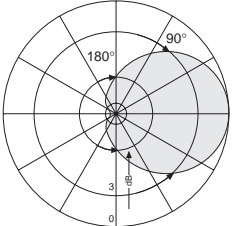
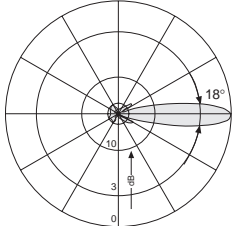


The components must be ordered separately:

	Description	Type No.	Quantity
Example 1:	2-F-panel 900 105° 13.5 dBi	738 140	3 pieces
	Mast	738 019	1 piece
	Azimuth adjustment flange	737 649	1 piece
Example 2:	2-F-panel 900 105° 13.5 dBi	738 140	1 piece
	2-F-panel 900 105° 13.5dBi 6°T	738 141	2 pieces
	Mast	738 019	1 piece
	Azimuth adjustment flange	737 649	1 piece

Eurocell F-Panels GSM 900 – Multi-unit 3 Unit Antennas 90° Half-power Beam Width

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Antenna	3-F-Panel 900 90° 12.5dBi	3-F-Panel 900 90° 12.5dBi 10°T
Type No.	738 144	738 145
Input	3 x 7-16 female	3 x 7-16 female
Connector position	Bottom	Bottom
Frequency range	872 – 960 MHz	872 – 960 MHz
VSWR	< 1.4	< 1.4
Gain	12.5 dBi bottom system 12 dBi middle, top system	12.5 dBi bottom system 12 dBi middle, top system
Impedance	50 Ω	50 Ω
Polarization	Vertical	Vertical
Front-to-back-ratio	> 20 dB	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 18°	H-plane: 90°/ E-plane: 18°, 10°T
Isolation	> 36 dB	> 36 dB
Max. power per input	400 Watt (at 50 °C ambient temperature)	400 Watt (at 50 °C ambient temperature)
Weight	11 kg	11 kg
Wind load	Frontal: 620 N (at 150 km/h) Lateral: 290 N (at 150 km/h) Rearside: 780 N (at 150 km/h)	Frontal: 620 N (at 150 km/h) Lateral: 290 N (at 150 km/h) Rearside: 780 N (at 150 km/h)
Max. wind velocity	180 km/h (on mast type no. 738139)	180 km/h (on mast type no. 738139)
Height/width/depth	3041 / 155 / 49 mm	3041 / 155 / 49 mm
		

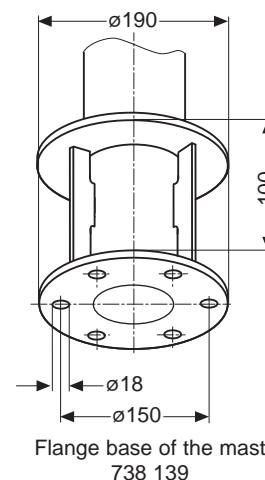
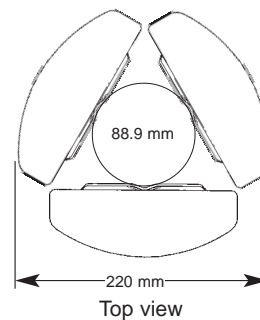


Components for a 9-unit GSM antenna for 3 sectors

Using the mast type no. 738 139 and the azimuth adjustment flange type no. 737 649, the 3-unit antennas type no. 738 144 or 738 145 can be combined to form a 9-unit antenna.

Data of the 9-unit antenna:

Length	3400 mm (incl. mast)
Diameter	220 mm
Weight	84 kg
Wind load	750 N (at 150 km/h)
Max. wind velocity	180 km/h
Connector position	Bottom (9 x 7-16 female)
Mounting	By means of 190 mm diameter standard flange.
Material	Mast and flange: Hot dip galvanized steel. Antennas: Completely closed fiberglass radome. Colour: Grey.
Isolation	All screws and nuts: Stainless steel. Vertical > 36 dB Horizontal > 45 dB
Grounding	All metal parts of the antenna as well as the inner conductors are DC grounded.



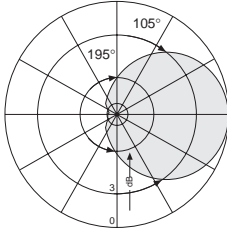
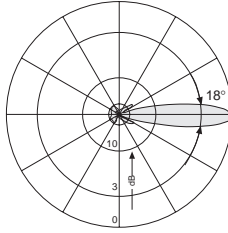
The components must be ordered separately:

	Description	Type No.	Quantity
Example 1:	3-F-panel 900 90° 12.5 dBi	738 144	3 pieces
	Mast	738 139	1 piece
	Azimuth adjustment flange	737 649	1 piece
Example 2:	3-F-panel 900 90° 12.5 dBi	738 144	1 piece
	3-F-panel 900 90° 12.5 dBi 10°T	738 145	2 pieces
	Mast	738 139	1 piece
	Azimuth adjustment flange	737 649	1 piece

Eurocell F-Panels GSM 900 – Multi-unit

3 Unit Antennas

105° Half-power Beam Width

Antenna	3-F-Panel 900 105° 12dBi	3-F-Panel 900 105° 12dBi 10°T
Type No.	738 142	738 143
Input	3 x 7-16 female	3 x 7-16 female
Connector position	Bottom	Bottom
Frequency range	872 – 960 MHz	872 – 960 MHz
VSWR	< 1.5	< 1.5
Gain	12 dBi bottom system 11.5 dBi middle, top system	12 dBi bottom system 11.5 dBi middle, top system
Impedance	50 Ω	50 Ω
Polarization	Vertical	Vertical
Front-to-back-ratio	> 20 dB	> 20 dB
Half-power beam width	H-plane: 105°/ E-plane: 18°	H-plane: 105°/ E-plane: 18°, 10°T
Isolation	> 36 dB	> 36 dB
Max. power per input	400 Watt (at 50 °C ambient temperature)	400 Watt (at 50 °C ambient temperature)
Weight	11 kg	11 kg
Wind load	Frontal: 620 N (at 150 km/h) Lateral: 290 N (at 150 km/h) Rearside: 780 N (at 150 km/h)	Frontal: 620 N (at 150 km/h) Lateral: 290 N (at 150 km/h) Rearside: 780 N (at 150 km/h)
Max. wind velocity	180 km/h (on mast type no. 738139)	180 km/h (on mast type no. 738139)
Height/width/depth	3041 / 155 / 49 mm	3041 / 155 / 49 mm
		

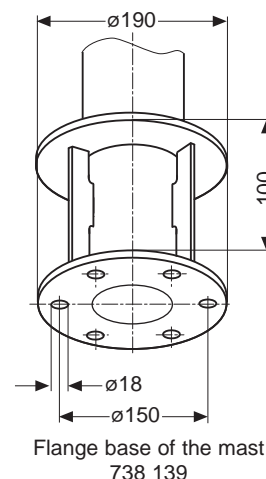
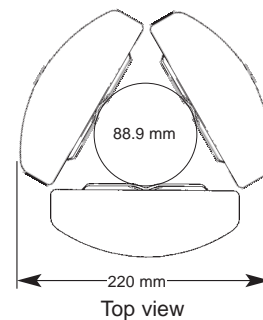


Components for a 9-unit GSM antenna for 3 sectors

Using the mast type no. 738 139 and the azimuth adjustment flange type no. 737 649, the 3-unit antennas type no. 738 142 or 738 143 can be combined to form a 9-unit antenna.

Data of the 9-unit antenna:

Length	3400 mm (incl. mast)
Diameter	220 mm
Weight	84 kg
Wind load	750 N (at 150 km/h)
Max. wind velocity	180 km/h
Connector position	Bottom (9 x 7-16 female)
Mounting	By means of 190 mm diameter standard flange.
Material	Mast and flange: Hot dip galvanized steel. Antennas: Completely closed fiberglass radome. Colour: Grey.
Isolation	All screws and nuts: Stainless steel. Vertical > 36 dB Horizontal > 40 dB
Grounding	All metal parts of the antenna as well as the inner conductors are DC grounded.



The components must be ordered separately:

	Description	Type No.	Quantity
Example 1:	3-F-panel 900 105° 12 dBi	738 142	3 pieces
	Mast	738 139	1 piece
	Azimuth adjustment flange	737 649	1 piece
Example 2:	3-F-panel 900 105° 12 dBi	738 142	1 piece
	3-F-panel 900 105° 12 dBi 10°T	738 143	2 pieces
	Mast	738 139	1 piece
	Azimuth adjustment flange	737 649	1 piece

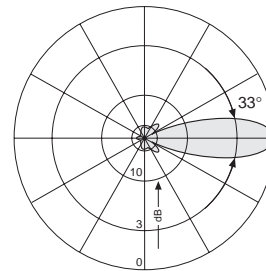
Eurocell F-Panels GSM 1800 – Dual Polarization **KATHREIN**

+45°/-45° Polarization
33° Half-power Beam Width

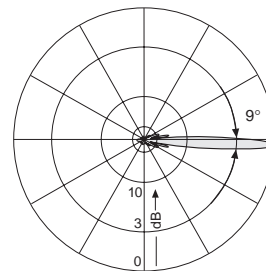
Antennen · Electronic

XPol F-Panel 1800 33° 19.5dBi 2°T

Type No.	739 927
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	1710 – 1880 MHz
VSWR	< 1.5
Gain	19.5 dBi
Impedance	50 Ω
Polarization	+45°; -45°
Front-to-back ratio, copolar	> 30 dB
Half-power beam width	+45° polarization Horizontal: 33°, vertical: 9°, 2°T -45° polarization Horizontal: 33°, vertical: 9°, 2°T
Isolation	> 30 dB
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	7 kg
Wind load	Frontal: 260 N (at 150 km/h) Lateral: 95 N (at 150 km/h) Rearside: 370 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1100 x 285 x 100 mm
Height/width/depth	982 / 262 / 59 mm



Horizontal Pattern



Vertical Pattern
2° electr. downtilt



- Vertical Pattern:
- 2° electr. downtilt
 - first nullfill below horizon better or equal -25 dB below maximum gain
 - sidelobe suppression above horizon for first sidelobe better or equal 14 dB below maximum gain.

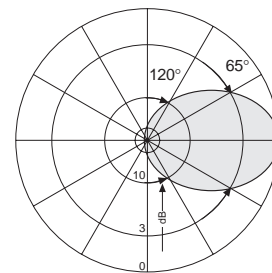
Eurocell F-Panels GSM 1800 – Dual Polarization **KATHREIN**

+45°/-45° Polarization
65° Half-power Beam Width

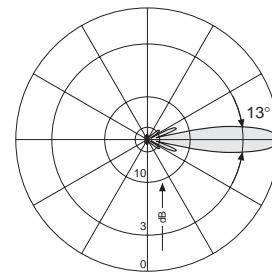
Antennen · Electronic

XPoI F-Panel 1800 65° 15.5dBi

Type No.	739 490
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1880 MHz
VSWR	< 1.5
Gain	2 x 15.5 dBi
Impedance	50 Ω
Polarization	+45°; -45°
Front-to-back ratio, copolar	> 30 dB
Half-power beam width	+45° polarization Horizontal: 65°, vertical: 13° -45° polarization Horizontal: 65°, vertical: 13°
Isolation	> 30 dB
Max. power per input	200 Watt (at 50 °C ambient temperature)
Weight	3.5 kg
Wind load	Frontal: 150 N (at 150 km/h) Lateral: 55 N (at 150 km/h) Rearside: 120 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	764 x 172 x 72 mm
Height/width/depth	662 / 155 / 49 mm



Horizontal Pattern

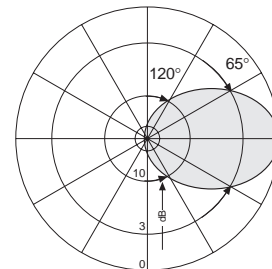


Vertical Pattern

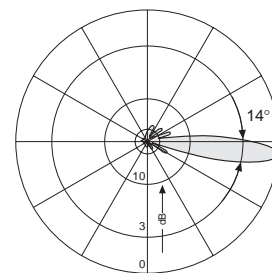


XPoI F-Panel 1800 65° 15.5dBi 6°T / 12°T

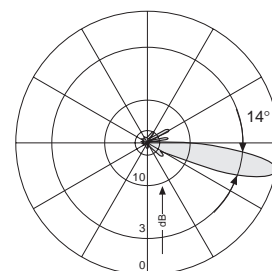
Type No.	739 491	741 264
Input	2 x 7-16 female	
Connector position	Bottom	
Frequency range	1710 – 1880 MHz	
VSWR	< 1.5	< 1.4
Gain	2 x 15.5 dBi	
Impedance	50 Ω	
Polarization	+45°; -45°	
Front-to-back ratio, copolar	> 30 dB	
Half-power beam width	+45° polarization Horizontal: 65°, vertical: 14° 6° electr. downtilt 12° electr. downtilt -45° polarization Horizontal: 65°, vertical: 14° 6° electr. downtilt 12° electr. downtilt	
Isolation	> 30 dB	
Max. power per input	200 Watt (at 50 °C ambient temperature)	
Weight	3.5 kg	
Wind load	Frontal: 150 N (at 150 km/h) Lateral: 55 N (at 150 km/h) Rearside: 120 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	764 x 172 x 72 mm	
Height/width/depth	662 / 155 / 49 mm	



Horizontal Pattern



Vertical Pattern
6° electr. downtilt



Vertical Pattern
12° electr. downtilt



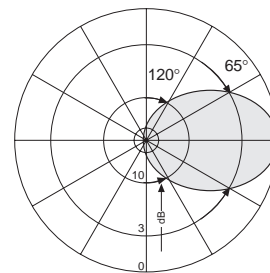
Eurocell F-Panels GSM 1800 – Dual Polarization **KATHREIN**

+45°/-45° Polarization
65° Half-power Beam Width

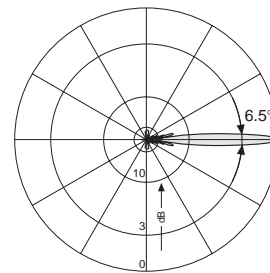
Antennen · Electronic

XPol F-Panel 1800 65° 18dBi

Type No.	739 494
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1880 MHz
VSWR	< 1.5
Gain	2 x 18 dBi
Impedance	50 Ω
Polarization	+45°; -45°
Front-to-back ratio, copolar	> 30 dB
Half-power beam width	+45° polarization Horizontal: 65°, vertical: 6.5° -45° polarization Horizontal: 65°, vertical: 6.5°
Isolation	> 30 dB
Max. power per input	200 Watt (at 50 °C ambient temperature)
Weight	6 kg
Wind load	Frontal: 310 N (at 150 km/h) Lateral: 110 N (at 150 km/h) Rearside: 250 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1404 x 172 x 72 mm
Height/width/depth	1302 / 155 / 49 mm



Horizontal Pattern

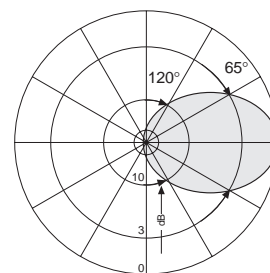


Vertical Pattern

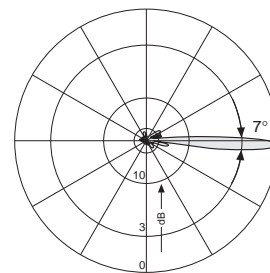


XPol F-Panel 1800/1900 65° 18dBi 2°T

Type No.	739 495	741 444
Input	2 x 7-16 female	
Connector position	Bottom	Top
Frequency range	1710 – 1990 MHz	
VSWR	< 1.4 (1710 – 1880 MHz) < 1.5 (1880 – 1990 MHz)	
Gain	2 x 18 dBi	
Impedance	50 Ω	
Polarization	+45°; -45°	
Front-to-back ratio, copolar	> 30 dB	
Half-power beam width	+45° polarization Horizontal: 65°, vertical: 7°, 2°T -45° polarization Horizontal: 65°, vertical: 7°, 2°T	
Isolation	> 30 dB	
Max. power per input	200 Watt (at 50 °C ambient temperature)	
Weight	6 kg	
Wind load	Frontal: 310 N (at 150 km/h) Lateral: 110 N (at 150 km/h) Rearside: 250 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	1404 x 172 x 72 mm	
Height/width/depth	1302 / 155 / 49 mm	



Horizontal Pattern



Vertical Pattern
2° electr. downtilt

Vertical Pattern:

- 2° electr. downtilt
- first nullfill below horizon better or equal -25 dB below maximum gain
- sidelobe suppression above horizon for first sidelobe better or equal 14 dB below maximum gain.

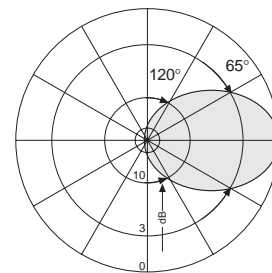
Eurocell F-Panels GSM 1800 / PCS

Dual Polarization – +45°/-45° Polarization

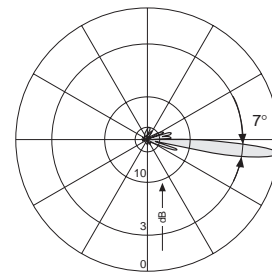
65° Half-power Beam Width

XPol F-Panel 1800/1900 65° 18dBi 6°T

Type No.	739 496	741 445
Input	2 x 7-16 female	
Connector position	Bottom	Top
Frequency range	1710 – 1990 MHz	
VSWR	< 1.4 (1710 – 1880 MHz)	
	< 1.5 (1880 – 1990 MHz)	
Gain	2 x 18 dBi	
Impedance	50 Ω	
Polarization	+45°; -45°	
Front-to-back ratio, copolar	> 30 dB	
Half-power beam width	+45° polarization	
	Horizontal: 65°, vertical: 7°, 6°T	
	-45° polarization	
	Horizontal: 65°, vertical: 7°, 6°T	
Isolation	> 30 dB	
Max. power per input	200 Watt (at 50 °C ambient temperature)	
Weight	6 kg	
Wind load	Frontal: 310 N (at 150 km/h)	
	Lateral: 110 N (at 150 km/h)	
	Rearside: 250 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	1404 x 172 x 72 mm	
Height/width/depth	1302 / 155 / 49 mm	



Horizontal Pattern



Vertical Pattern
6° electr. downtilt



- Vertical Pattern:
- 6° electr. downtilt
 - first nullfill below horizon better or equal -25 dB below maximum gain
 - sidelobe suppression above horizon for first sidelobe better or equal 14 dB below maximum gain.

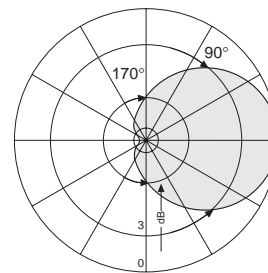
Eurocell F-Panels GSM 1800 – Dual Polarization **KATHREIN**

+45°/-45° Polarization
90° Half-power Beam Width

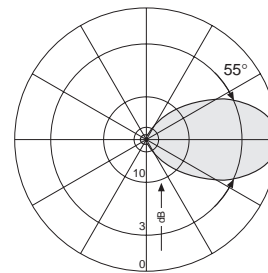
Antennen · Electronic

XPoI F-Panel 1800/1900 90° 8dBi

Type No.	739 695
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1990 MHz
VSWR	< 1.4
Gain	2 x 8 dBi
Impedance	50 Ω
Polarization	+45°; -45°
Front-to-back ratio, copolar	> 20 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 55° -45° polarization Horizontal: 90°, vertical: 55°
Isolation	> 30 dB
Max. power per input	200 Watt (at 50 °C ambient temperature)
Weight	3.0 kg
Wind load	Frontal: 20 N (at 150 km/h) Lateral: 15 N (at 150 km/h) Rearside: 30 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	284 x 172 x 92 mm
Height/width/depth	174 / 155 / 69 mm



Horizontal Pattern

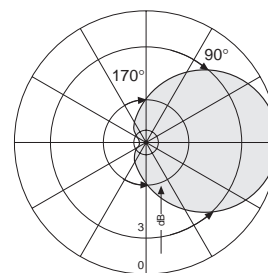


Vertical Pattern

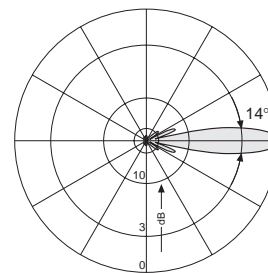


XPoI F-Panel 1800 90° 14dBi

Type No.	739 698
Input	2 x 7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1880 MHz
VSWR	< 1.4
Gain	2 x 14 dBi
Impedance	50 Ω
Polarization	+45°; -45°
Front-to-back ratio, copolar	> 25 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 14° -45° polarization Horizontal: 90°, vertical: 14°
Isolation	> 30 dB
Max. power per input	200 Watt (at 50 °C ambient temperature)
Weight	3.5 kg
Wind load	Frontal: 65 N (at 150 km/h) Lateral: 50 N (at 150 km/h) Rearside: 160 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	804 x 172 x 92 mm
Height/width/depth	702 / 155 / 69 mm



Horizontal Pattern



Vertical Pattern



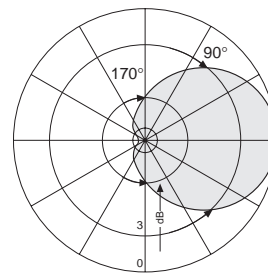
Eurocell F-Panels GSM 1800 – Dual Polarization **KATHREIN**

+45°/-45° Polarization
90° Half-power Beam Width

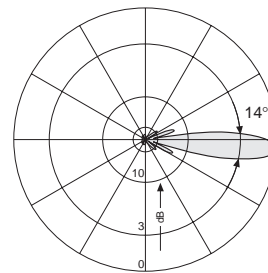
Antennen · Electronic

XPoI F-Panel 1800 90° 14dBi 4°T

Type No.	741 214
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	1710 – 1880 MHz
VSWR	< 1.4
Gain	2 x 14 dBi
Impedance	50 Ω
Polarization	+45°; -45°
Front-to-back ratio, copolar	> 25 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 14°, 4°T -45° polarization Horizontal: 90°, vertical: 14°, 4°T
Isolation	> 30 dB
Max. power per input	200 Watt (at 50 °C ambient temperature)
Weight	3.5 kg
Wind load	Frontal: 65 N (at 150 km/h) Lateral: 50 N (at 150 km/h) Rearside: 160 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	804 x 172 x 92 mm
Height/width/depth	702 / 155 / 69 mm



Horizontal Pattern

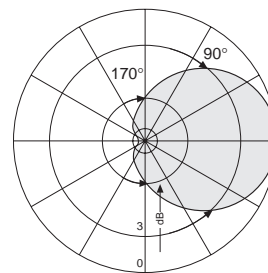


Vertical Pattern
4° electr. downtilt

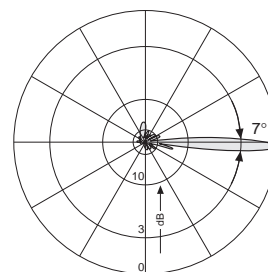


XPoI F-Panel 1800 90° 16.5dBi 2°T

Type No.	739 707
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	1710 – 1880 MHz
VSWR	< 1.4
Gain	2 x 16.5 dBi
Impedance	50 Ω
Polarization	+45°; -45°
Front-to-back ratio, copolar	> 25 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 7°, 2°T -45° polarization Horizontal: 90°, vertical: 7°, 2°T
Isolation	> 30 dB
Max. power per input	200 Watt (at 50 °C ambient temperature)
Weight	6 kg
Wind load	Frontal: 130 N (at 150 km/h) Lateral: 110 N (at 150 km/h) Rearside: 310 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1404 x 172 x 92 mm
Height/width/depth	1302 / 155 / 69 mm



Horizontal Pattern



Vertical Pattern
2° electr. downtilt



Vertical Pattern:

- 2° electr. downtilt
- first nullfill below horizon better or equal -25 dB below maximum gain
- sidelobe suppression above horizon for first side-lobe better or equal 14 dB below maximum gain.

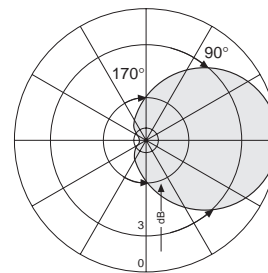
Eurocell F-Panels GSM 1800 – Dual Polarization **KATHREIN**

+45°/-45° Polarization
90° Half-power Beam Width

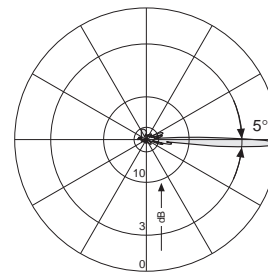
Antennen · Electronic

XPol F-Panel 1800 90° 17.5dBi 2°T

Type No.	739 710
Input	2 x 7-16 female
Connector position	Bottom
Frequency range	1710 – 1880 MHz
VSWR	< 1.4
Gain	2 x 17.5 dBi
Impedance	50 Ω
Polarization	+45°; -45°
Front-to-back ratio, copolar	> 25 dB
Half-power beam width	+45° polarization Horizontal: 90°, vertical: 5°, 2°T -45° polarization Horizontal: 90°, vertical: 5°, 2°T
Isolation	> 30 dB
Max. power per input	200 Watt (at 50 °C ambient temperature)
Weight	9 kg
Wind load	Frontal: 190 N (at 150 km/h) Lateral: 160 N (at 150 km/h) Rearside: 470 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2004 x 172 x 92 mm
Height/width/depth	1902 / 155 / 69 mm



Horizontal Pattern



Vertical Pattern
2° electr. downtilt



- Vertical Pattern:
- 2° electr. downtilt
 - first nullfill below horizon better or equal -25 dB below maximum gain
 - sidelobe suppression above horizon for first side-lobe better or equal 14 dB below maximum gain.

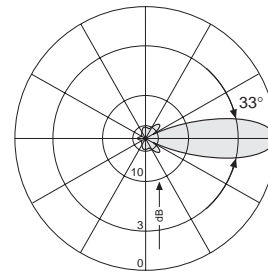
Eurocell F-Panels GSM 1800

Vertical Polarization

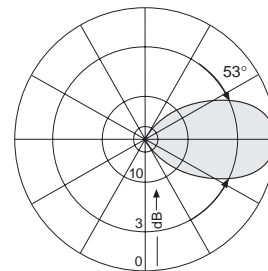
33° Half-power Beam Width

F-Panel 1800 33° 12.5dBi

Type No.	732 329
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	12.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 33°/ E-plane: 53°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	2 kg
Wind load	Frontal: 53 N (at 150 km/h) Lateral: 18 N (at 150 km/h) Rearside: 70 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	457 x 282 x 99 mm
Height/width/depth	209 / 262 / 59 mm



Horizontal Pattern

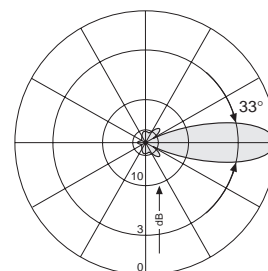


Vertical Pattern

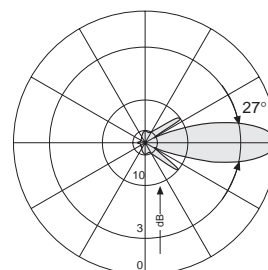


F-Panel 1800/1900 33° 15dBi

Type No.	739 129
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1990 MHz
VSWR	< 1.5
Gain	15 dBi (1880 – 1990 MHz) 14.5 dBi (1710 – 1880 MHz)
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 33°/ E-plane: 27°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	2.5 kg
Wind load	Frontal: 85 N (at 150 km/h) Lateral: 30 N (at 150 km/h) Rearside: 120 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	457 x 282 x 99 mm
Height/width/depth	342 / 262 / 59 mm



Horizontal Pattern



Vertical Pattern

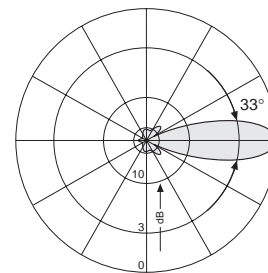


Eurocell F-Panels GSM 1800

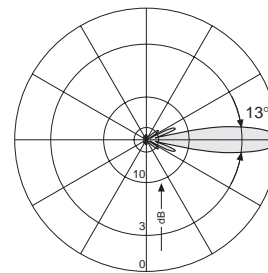
Vertical Polarization

33° Half-power Beam Width

Type No.	739 131
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1990 MHz
VSWR	< 1.5
Gain	18 dBi (1880 – 1990 MHz) 17.5 dBi (1710 – 1880 MHz)
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 25 dB
Half-power beam width	H-plane: 33°/ E-plane: 13°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	4 kg
Wind load	Frontal: 170 N (at 150 km/h) Lateral: 60 N (at 150 km/h) Rearside: 250 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	777 x 282 x 99 mm
Height/width/depth	662 / 262 / 59 mm



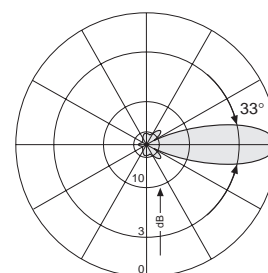
Horizontal Pattern



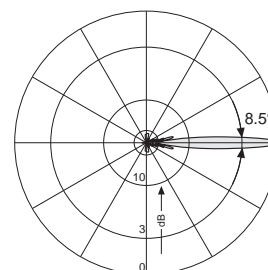
Vertical Pattern



Type No.	739 132
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1990 MHz
VSWR	< 1.5
Gain	20 dBi (1880 – 1990 MHz) 19.5 dBi (1710 – 1880 MHz)
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 33°/ E-plane: 8.5°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	6 kg
Wind load	Frontal: 260 N (at 150 km/h) Lateral: 95 N (at 150 km/h) Rearside: 370 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1097 x 282 x 99 mm
Height/width/depth	982 / 262 / 59 mm



Horizontal Pattern



Vertical Pattern



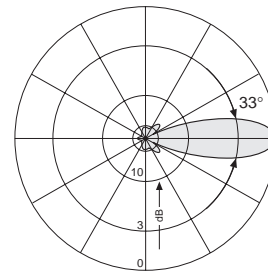
Eurocell F-Panels GSM 1800

Vertical Polarization

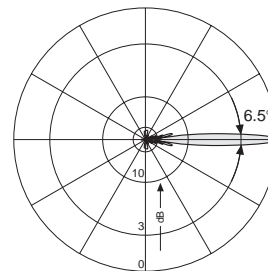
33° Half-power Beam Width

F-Panel 1800/1900 33° 21dBi

Type No.	739 134
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1990 MHz
VSWR	< 1.5
Gain	21 dBi (1880 – 1990 MHz) 20.5 dBi (1710 – 1880 MHz)
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 33°/ E-plane: 6.5°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	7.5 kg
Wind load	Frontal: 350 N (at 150 km/h) Lateral: 130 N (at 150 km/h) Rearside: 500 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1412 x 282 x 99 mm
Height/width/depth	1302 / 262 / 59 mm



Horizontal Pattern

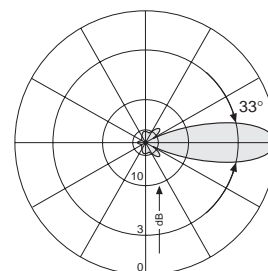


Vertical Pattern

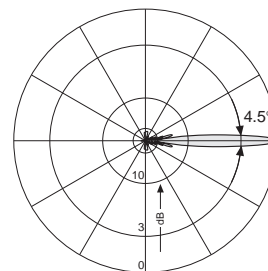


F-Panel 1800/1900 33° 22.5dBi

Type No.	739 136
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1990 MHz
VSWR	< 1.5
Gain	22.5 dBi (1880 – 1990 MHz) 22 dBi (1710 – 1880 MHz)
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 33°/ E-plane: 4.5°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	11 kg
Wind load	Frontal: 540 N (at 150 km/h) Lateral: 210 N (at 150 km/h) Rearside: 770 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2057 x 282 x 99 mm
Height/width/depth	1942 / 262 / 59 mm



Horizontal Pattern



Vertical Pattern

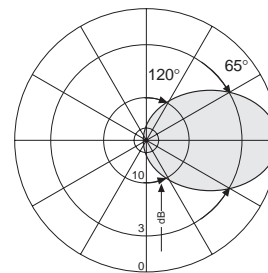
Eurocell F-Panels GSM 1800

Vertical Polarization

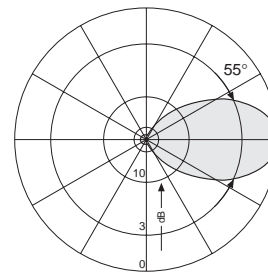
65° Half-power Beam Width

F-Panel 1800 65° 10dBi

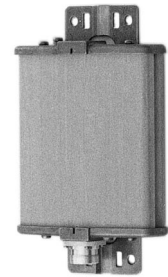
Type No.	734 304
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	10 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 55°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	1.3 kg
Wind load	Frontal: 30 N (at 150 km/h) Lateral: 5 N (at 150 km/h) Rearside: 40 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	284 x 172 x 62 mm
Height/width/depth	182 / 155 / 36 mm



Horizontal Pattern

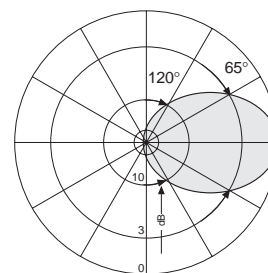


Vertical Pattern

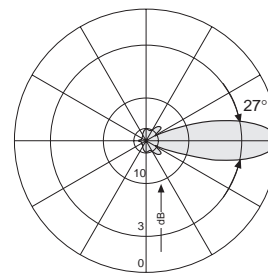


F-Panel 1800 65° 12.5dBi

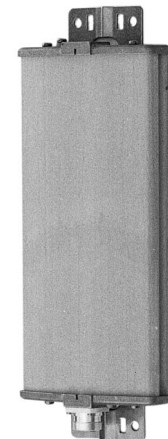
Type No.	734 306
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	12.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 27°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	1.7 kg
Wind load	Frontal: 60 N (at 150 km/h) Lateral: 15 N (at 150 km/h) Rearside: 75 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	444 x 172 x 62 mm
Height/width/depth	342 / 155 / 36 mm



Horizontal Pattern



Vertical Pattern



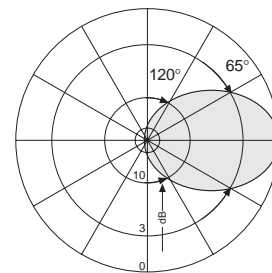
Eurocell F-Panels GSM 1800

Vertical Polarization

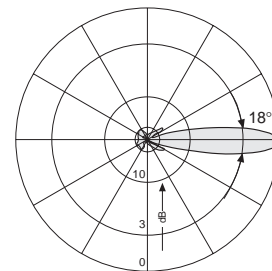
65° Half-power Beam Width

F-Panel 1800 65° 14dBi

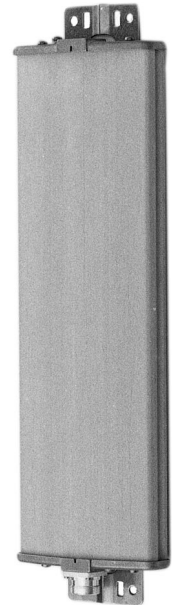
Type No.	734 308
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	14 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 18°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	2.2 kg
Wind load	Frontal: 95 N (at 150 km/h) Lateral: 20 N (at 150 km/h) Rearside: 110 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	604 x 172 x 62 mm
Height/width/depth	502 / 155 / 36 mm



Horizontal Pattern

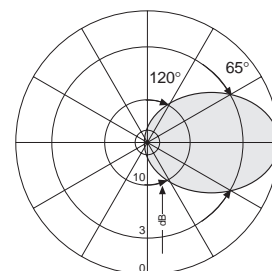


Vertical Pattern

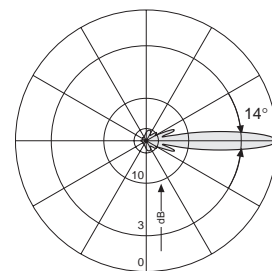


F-Panel 1800 65° 15.5dBi

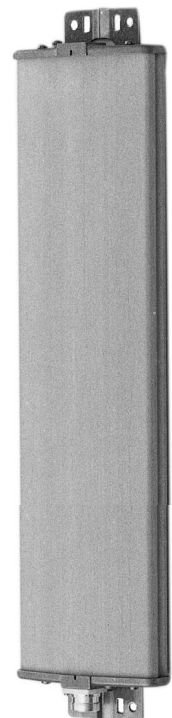
Type No.	734 310
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	15.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 14°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	2.7 kg
Wind load	Frontal: 130 N (at 150 km/h) Lateral: 25 N (at 150 km/h) Rearside: 150 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	764 x 172 x 62 mm
Height/width/depth	662 / 155 / 36 mm



Horizontal Pattern



Vertical Pattern



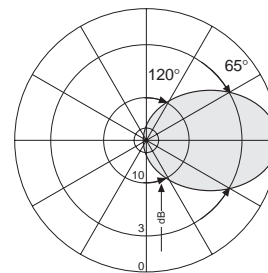
Eurocell F-Panels GSM 1800

Vertical Polarization

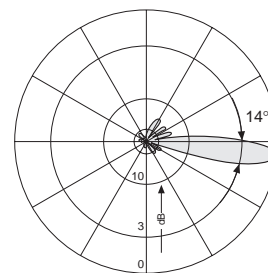
65° Half-power Beam Width

F-Panel 1800 65° 15.5dBi 6°T

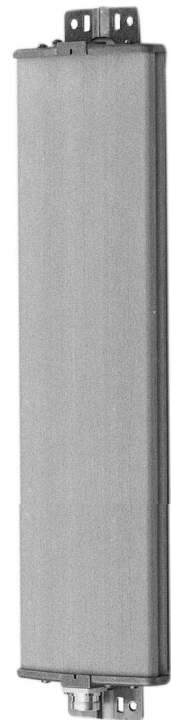
Type No.	737 950
Input	7-16 female
Connector position	Bottom
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	15.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 14° 6° electr. downtilt
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	2.7 kg
Wind load	Frontal: 130 N (at 150 km/h) Lateral: 25 N (at 150 km/h) Rearside: 150 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	764 x 172 x 62 mm
Height/width/depth	662 / 155 / 36 mm



Horizontal Pattern

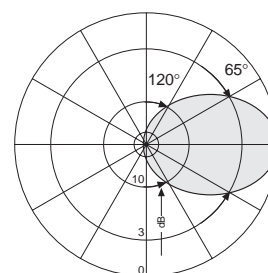


Vertical Pattern
6° electr. downtilt

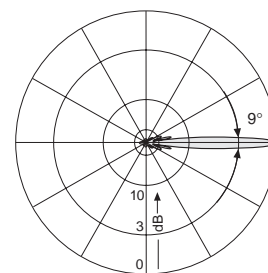


F-Panel 1800 65° 17dBi

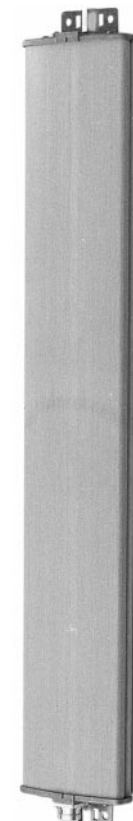
Type No.	734 312
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	17 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 9°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	3.7 kg
Wind load	Frontal: 190 N (at 150 km/h) Lateral: 40 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1084 x 172 x 62 mm
Height/width/depth	982 / 155 / 36 mm



Horizontal Pattern



Vertical Pattern



Eurocell F-Panels GSM 1800

Vertical Polarization

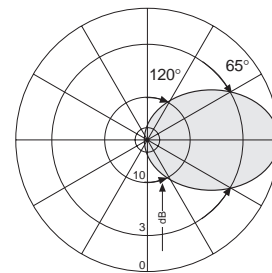
65° Half-power Beam Width

F-Panel 1800 65° 17dBi 2°T / 8°T

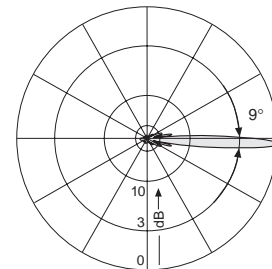
Type No.	735 141	736 016
Input	7-16 female	
Connector position	Bottom	
Frequency range	1710 – 1900 MHz	
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)	
Gain	17 dBi	16.5 dBi
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back ratio	> 25 dB	
Half-power beam width	H-plane: 65° / E-plane: 9° 2° electr. downtilt 8° electr. downtilt	
Max. power	200 Watt (at 50 °C ambient temperature)	
Weight	3.7 kg	
Wind load	Frontal: 190 N (at 150 km/h) Lateral: 40 N (at 150 km/h) Rearside: 230 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	1084 x 172 x 62 mm	
Height/width/depth	982 / 155 / 36 mm	

Vertical Pattern:

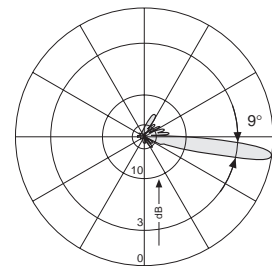
- 2° electr. downtilt | 8° electr. downtilt
- first null-fill below horizon better than or equal to -25 dB below maximum gain
- sidelobe suppression above horizon for first sidelobe better than or equal to 14 dB below maximum gain.



Horizontal Pattern



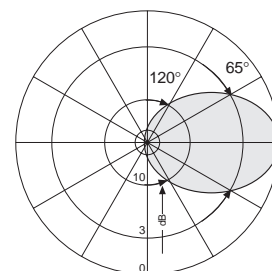
Vertical Pattern
2° electr. downtilt



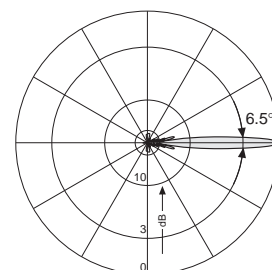
Vertical Pattern
8° electr. downtilt

F-Panel 1800 65° 18dBi

Type No.	734 314
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	18 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 65° / E-plane: 6.5°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	4.6 kg
Wind load	Frontal: 260 N (at 150 km/h) Lateral: 55 N (at 150 km/h) Rearside: 310 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1404 x 172 x 62 mm
Height/width/depth	1302 / 155 / 36 mm



Horizontal Pattern



Vertical Pattern



Eurocell F-Panels GSM 1800

Vertical Polarization

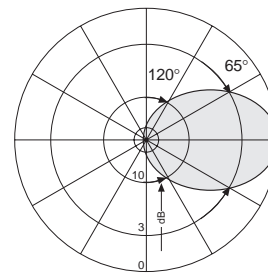
65° Half-power Beam Width

F-Panel 1800 65° 18dBi 2°T / 17.5 dBi 6°T

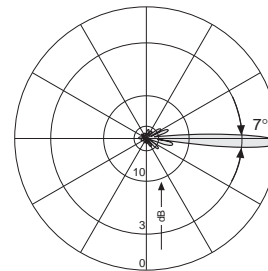
Type No.	735 147	736 018
Input	7-16 female	
Connector position	Bottom	
Frequency range	1710 – 1900 MHz	
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)	
Gain	18 dBi	17.5 dBi
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back ratio	> 25 dB	
Half-power beam width	H-plane: 65°/ E-plane: 7° 2° electr. downtilt 6° electr. downtilt	
Max. power	200 Watt (at 50 °C ambient temperature)	
Weight	4.6 kg	
Wind load	Frontal: 260 N (at 150 km/h) Lateral: 55 N (at 150 km/h) Rearside: 310 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	1404 x 172 x 62 mm	
Height/width/depth	1302 / 155 / 36 mm	

Vertical Pattern:

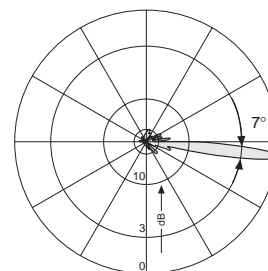
- 2° electr. downtilt | 6° electr. downtilt
- first null-fill below horizon better than or equal to -25 dB below maximum gain
- sidelobe suppression above horizon for first sidelobe better than or equal to 14 dB below maximum gain.



Horizontal Pattern



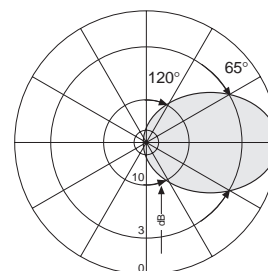
Vertical Pattern
2° electr. downtilt



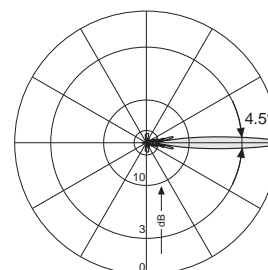
Vertical Pattern
6° electr. downtilt

F-Panel 1800 65° 19.5dBi

Type No.	734 316
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	19.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 65°/ E-plane: 4.5°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	6.9 kg
Wind load	Frontal: 400 N (at 150 km/h) Lateral: 90 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2044 x 172 x 62 mm
Height/width/depth	1942 / 155 / 36 mm



Horizontal Pattern



Vertical Pattern



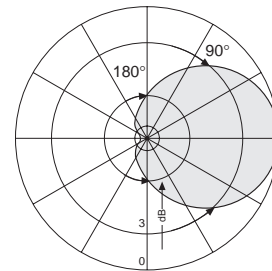
Eurocell F-Panels GSM 1800

Vertical Polarization

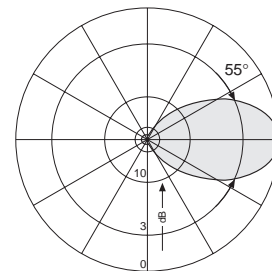
90° Half-power Beam Width

F-Panel 1800 90° 8dBi

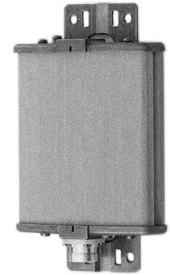
Type No.	734 318
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	8 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 19 dB
Half-power beam width	H-plane: 90°/ E-plane: 55°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	1.4 kg
Wind load	Frontal: 30 N (at 150 km/h) Lateral: 15 N (at 150 km/h) Rearside: 40 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	284 x 172 x 72 mm
Height/width/depth	182 / 155 / 49 mm



Horizontal Pattern

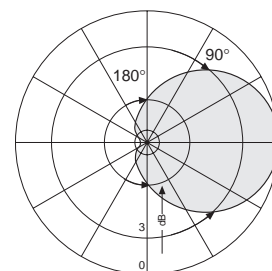


Vertical Pattern

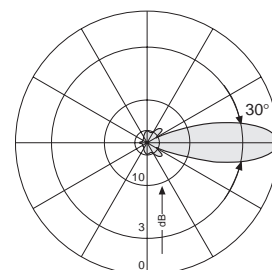


F-Panel 1800 90° 11dBi

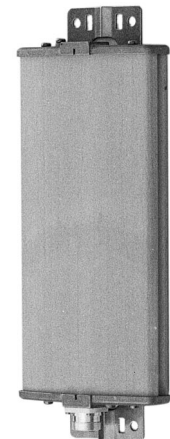
Type No.	734 320
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	11 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 22 dB
Half-power beam width	H-plane: 90°/ E-plane: 30°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	1.9 kg
Wind load	Frontal: 60 N (at 150 km/h) Lateral: 25 N (at 150 km/h) Rearside: 75 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	444 x 172 x 72 mm
Height/width/depth	342 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern



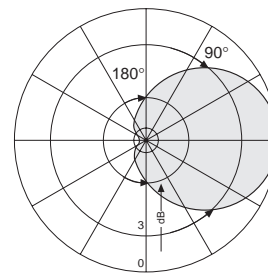
Eurocell F-Panels GSM 1800

Vertical Polarization

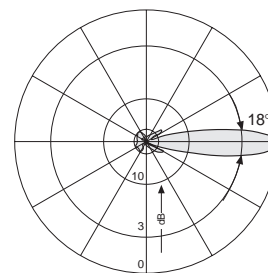
90° Half-power Beam Width

F-Panel 1800 90° 12.5dBi

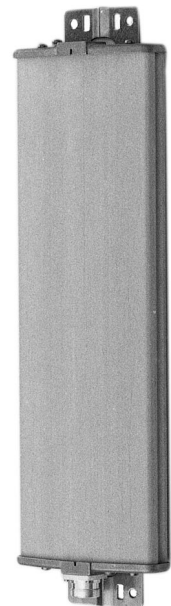
Type No.	734 322
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	12.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 22 dB
Half-power beam width	H-plane: 90°/ E-plane: 18°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	2.3 kg
Wind load	Frontal: 90 N (at 150 km/h) Lateral: 40 N (at 150 km/h) Rearside: 110 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	604 x 172 x 72 mm
Height/width/depth	502 / 155 / 49 mm



Horizontal Pattern

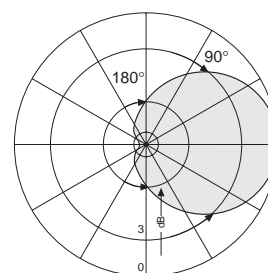


Vertical Pattern

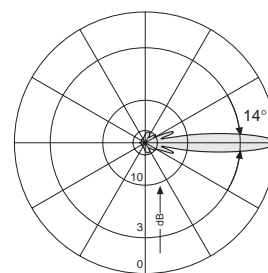


F-Panel 1800 90° 14dBi

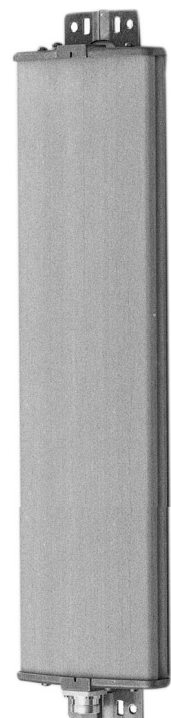
Type No.	734 324
Input	7-16 female
Connector position	Bottom
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	14 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 23 dB
Half-power beam width	H-plane: 90°/ E-plane: 14°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	2.7 kg
Wind load	Frontal: 120 N (at 150 km/h) Lateral: 55 N (at 150 km/h) Rearside: 150 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	764 x 172 x 72 mm
Height/width/depth	662 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern



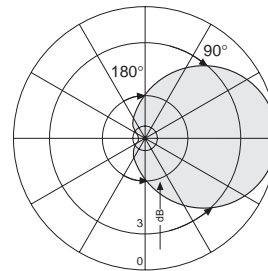
Eurocell F-Panels GSM 1800

Vertical Polarization

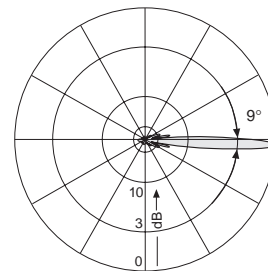
90° Half-power Beam Width

F-Panel 1800 90° 15.5dBi 2°T

Type No.	734 326
Input	7-16 female
Connector position	Bottom
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	15.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 23 dB
Half-power beam width	H-plane: 90°/ E-plane: 9° 2° electr. downtilt
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	3.9 kg
Wind load	Frontal: 180 N (at 150 km/h) Lateral: 80 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1084 x 172 x 72 mm
Height/width/depth	982 / 155 / 49 mm



Horizontal Pattern

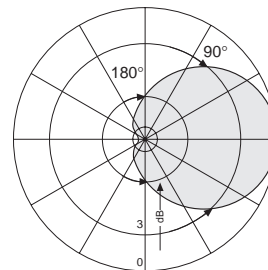


Vertical Pattern
2° electr. downtilt

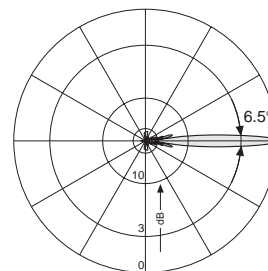
- Vertical Pattern:
- 2° electr. downtilt
 - first null-fill below horizon better or equal -25 dB below maximum gain
 - sidelobe suppression above horizon for first sidelobe better or equal 14 dB below maximum gain.

F-Panel 1800 90° 16.5dBi / 2°T

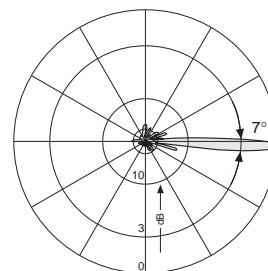
Type No.	739 714	734 328
Input	7-16 female	
Connector position	Bottom or top	
Frequency range	1710 – 1900 MHz	
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)	
Gain	16.5 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Front-to-back ratio	> 23 dB	
Half-power beam width	H-plane: 90° E-plane: 6.5°	H-plane: 90° E-plane: 7° 2° electr. downtilt
Max. power	200 Watt (at 50 °C ambient temperature)	
Weight	4.6 kg	
Wind load	Frontal: 250 N (at 150 km/h) Lateral: 110 N (at 150 km/h) Rearside: 310 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	1404 x 172 x 72 mm	
Height/width/depth	1302 / 155 / 49 mm	



Horizontal Pattern



Vertical Pattern



Vertical Pattern
2° electr. downtilt

- Vertical Pattern:
- 2° electr. downtilt
 - first null-fill below horizon better than or equal to -25 dB below maximum gain
 - sidelobe suppression above horizon for first sidelobe better than or equal to 14 dB below maximum gain.



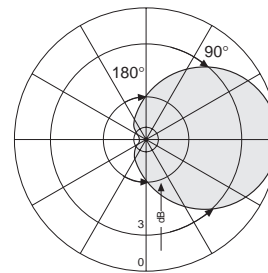
Eurocell F-Panels GSM 1800

Vertical Polarization

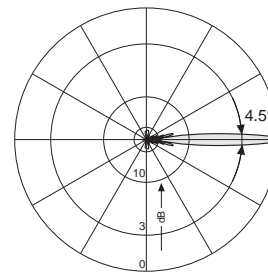
90° Half-power Beam Width

F-Panel 1800 90° 18dBi

Type No.	739 715
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	18 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 23 dB
Half-power beam width	H-plane: 90°/ E-plane: 4.5°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	6.9 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 180 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2044 x 172 x 72 mm
Height/width/depth	1942 / 155 / 49 mm



Horizontal Pattern

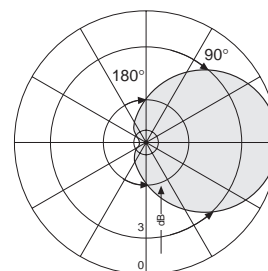


Vertical Pattern

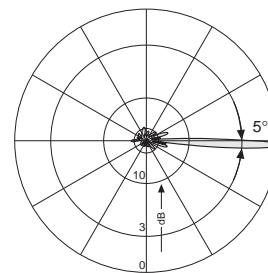


F-Panel 1800 90° 17.5dBi 2°T

Type No.	734 330
Input	7-16 female
Connector position	Bottom
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	17.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 23 dB
Half-power beam width	H-plane: 90°/ E-plane: 5° 2° electr. downtilt
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	6.9 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 180 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2044 x 172 x 72 mm
Height/width/depth	1942 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern
2° electr. downtilt

Vertical Pattern:

- 2° electr. downtilt
- first null-fill below horizon better than or equal to -25 dB below maximum gain
- sidelobe suppression above horizon for first sidelobe better than or equal to 14 dB below maximum gain.

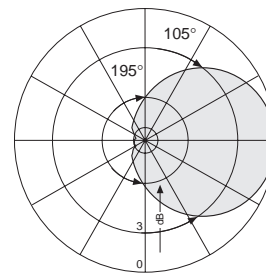
Eurocell F-Panels GSM 1800

Vertical Polarization

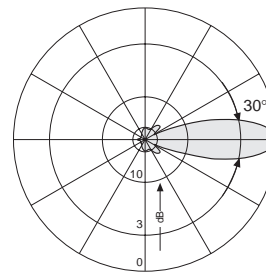
105° Half-power Beam Width

F-Panel 1800 105° 10.5dBi

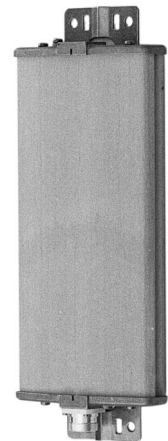
Type No.	734 334
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	10.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 20 dB
Half-power beam width	H-plane: 105°/ E-plane: 30°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	1.9 kg
Wind load	Frontal: 60 N (at 150 km/h) Lateral: 25 N (at 150 km/h) Rearside: 75 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	444 x 172 x 72 mm
Height/width/depth	342 / 155 / 49 mm



Horizontal Pattern

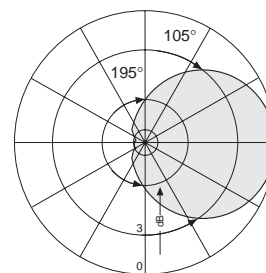


Vertical Pattern

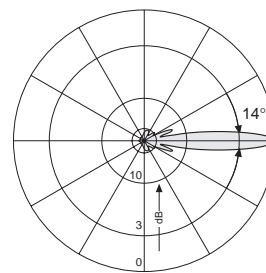


F-Panel 1800 105° 13.5dBi

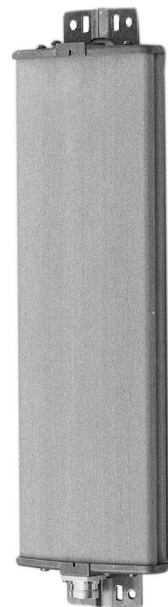
Type No.	734 338
Input	7-16 female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	13.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 20 dB
Half-power beam width	H-plane: 105°/ E-plane: 14°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	2.9 kg
Wind load	Frontal: 120 N (at 150 km/h) Lateral: 55 N (at 150 km/h) Rearside: 150 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	764 x 172 x 72 mm
Height/width/depth	662 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern



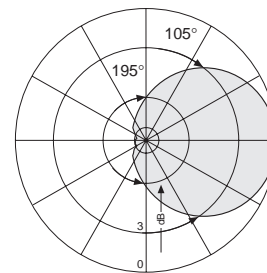
Eurocell F-Panels GSM 1800

Vertical Polarization

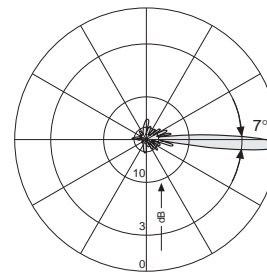
105° Half-power Beam Width

F-Panel 1800 105° 16dBi 2°T

Type No.	734 342
Input	7-16 female
Connector position	Bottom
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	16 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 20 dB
Half-power beam width	H-plane: 105°/ E-plane: 7° 2° electr. downtilt
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	4.9 kg
Wind load	Frontal: 250 N (at 150 km/h) Lateral: 110 N (at 150 km/h) Rearside: 310 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1404 x 172 x 72 mm
Height/width/depth	1302 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern
2° electr. downtilt

- Vertical Pattern:
- 2° electr. downtilt
 - first null-fill below horizon better than or equal to -25 dB below maximum gain
 - sidelobe suppression above horizon for first sidelobe better than or equal to 14 dB below maximum gain.



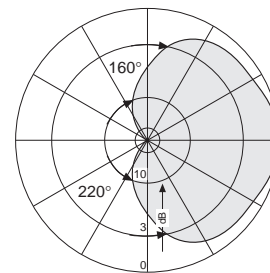
Eurocell F-Panels GSM 1800

Vertical Polarization

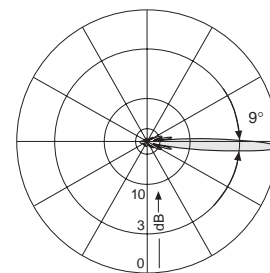
160° Half-power Beam Width

F-Panel 1800 160° 13dBi 2°T

Type No.	732 340
Input	7-16 female
Connector position	Bottom
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	13 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 23 dB
Half-power beam width	H-plane: 160° / E-plane: 9° 2° electr. downtilt
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	4.1 kg
Wind load	Frontal: 180 N (at 150 km/h) Lateral: 110 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1087 x 172 x 179 mm
Height/width/depth	982 / 155 / 49 mm (142 mm incl. Subreflector)



Horizontal Pattern



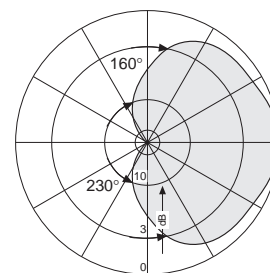
Vertical Pattern
2° electr. downtilt



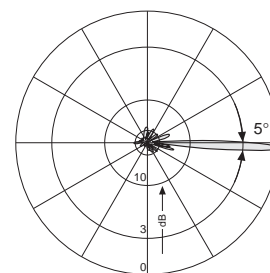
- Vertical Pattern:
- 2° electr. downtilt
 - first null-fill below horizon better than or equal to -25 dB below maximum gain
 - sidelobe suppression above horizon for first sidelobe better than or equal to 14 dB below maximum gain.

F-Panel 1800 160° 15.5dBi 2°T

Type No.	732 344
Input	7-16 female
Connector position	Bottom
Frequency range	1710 – 1900 MHz
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Gain	15.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 23 dB
Half-power beam width	H-plane: 160° / E-plane: 5° 2° electr. downtilt
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	7.5 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 230 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2047 x 172 x 179 mm
Height/width/depth	1942 / 155 / 49 mm (142 mm incl. Subreflector)



Horizontal Pattern



Vertical Pattern
2° electr. downtilt



- Vertical Pattern:
- 2° electr. downtilt
 - first null-fill below horizon better than or equal to -25 dB below maximum gain
 - sidelobe suppression above horizon for first sidelobe better than or equal to 14 dB below maximum gain.

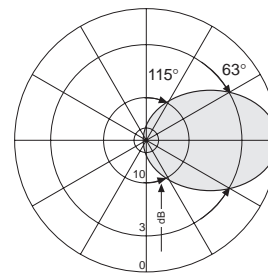
Eurocell F-Panels PCS

Vertical Polarization

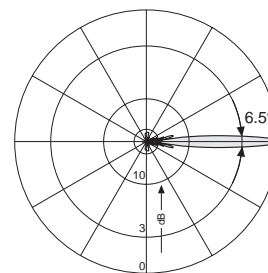
63° Half-power Beam Width

F-Panel 1900 63° 18dBi

Type No.	736 421
Input	7-16 female
Connector position	Bottom or top
Frequency range	1850 – 1990 MHz
VSWR	< 1.3
Gain	18 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 28 dB
Half-power beam width	H-plane: 63°/ E-plane: 6.5°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	4.6 kg
Wind load	Frontal: 260 N (at 150 km/h) Lateral: 55 N (at 150 km/h) Rearside: 310 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1404 x 172 x 62 mm
Height/width/depth	1302 / 155 / 36 mm



Horizontal Pattern

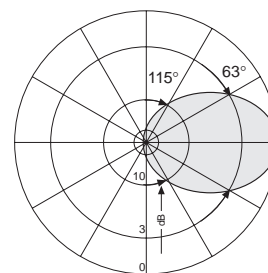


Vertical Pattern

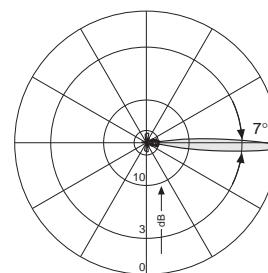


F-Panel 1900 63° 18dBi 2°T

Type No.	736 422
Input	7-16 female
Connector position	Bottom
Frequency range	1850 – 1990 MHz
VSWR	< 1.3
Gain	18 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 28 dB
Half-power beam width	H-plane: 63°/ E-plane: 7° 2° electr. downtilt
Max. power	250 Watt (at 50 °C ambient temperature)
Weight	4.6 kg
Wind load	Frontal: 260 N (at 150 km/h) Lateral: 55 N (at 150 km/h) Rearside: 310 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1404 x 172 x 62 mm
Height/width/depth	1302 / 155 / 36 mm



Horizontal Pattern



Vertical Pattern
2° electr. downtilt

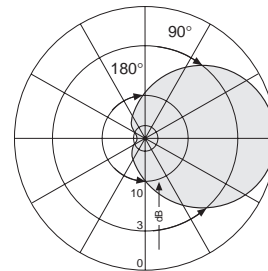
Eurocell F-Panels PCS

Vertical Polarization

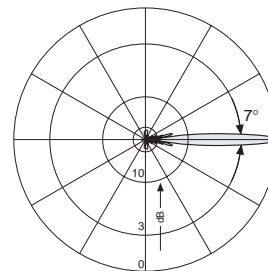
90° Half-power Beam Width

F-Panel 1900 90° 16.5dBi

Type No.	736 432
Input	7-16 female
Connector position	Bottom or top
Frequency range	1850 – 1990 MHz
VSWR	< 1.3
Gain	16.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 23 dB
Half-power beam width	H-plane: 90°/ E-plane: 7°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	4.6 kg
Wind load	Frontal: 250 N (at 150 km/h) Lateral: 110 N (at 150 km/h) Rearside: 310 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1404 x 172 x 72 mm
Height/width/depth	1302 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern

Vertical Pattern

- first null-fill below horizon better than -25 dB below maximum gain.
- sidelobe suppression above horizon for first sidelobe better than or equal to 16 dB below maximum gain.



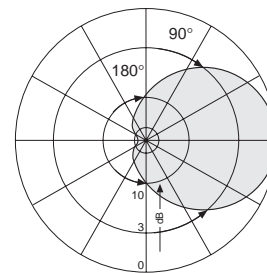
Eurocell F-Panels PCS

Vertical Polarization

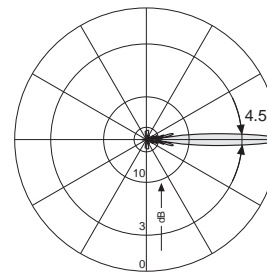
90° Half-power Beam Width

F-Panel 1900 90° 18dBi

Type No.	736 434
Input	7-16 female
Connector position	Bottom or top
Frequency range	1850 – 1990 MHz
VSWR	< 1.3
Gain	18 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 23 dB
Half-power beam width	H-plane: 90°/ E-plane: 4.5°
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	6.9 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 180 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2044 x 172 x 72 mm
Height/width/depth	1942 / 155 / 49 mm



Horizontal Pattern

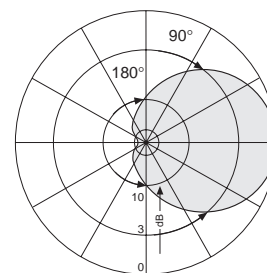


Vertical Pattern

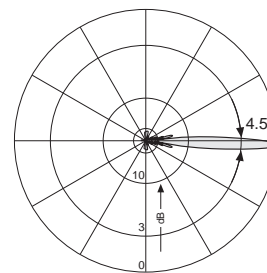


F-Panel 1900 90° 18dBi 2°T

Type No.	736 436
Input	7-16 female
Connector position	Bottom
Frequency range	1850 – 1990 MHz
VSWR	< 1.3
Gain	18 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 23 dB
Half-power beam width	H-plane: 90°/ E-plane: 4.5° 2° electr. downtilt
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	6.9 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 180 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2044 x 172 x 72 mm
Height/width/depth	1942 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern
2° electr. downtilt

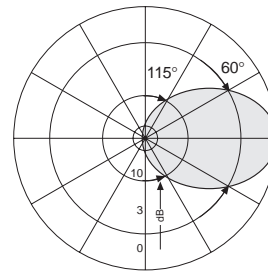
Eurocell F-Panels DECT

Vertical Polarization

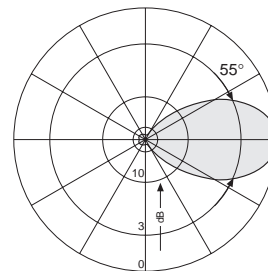
60° Half-power Beam Width

F-Panel DECT 60° 10dBi

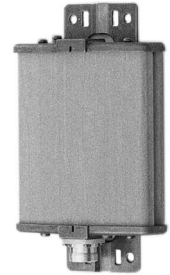
Type No.	738 161
Input	TNC female
Connector position	Bottom or top
Frequency range	1880 – 1930 MHz
VSWR	< 1.3 (1880 – 1900 MHz) < 1.5 (1900 – 1930 MHz)
Gain	10 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 60°/ E-plane: 55°
Max. power	100 Watt (at 50 °C ambient temperature)
Weight	1.3 kg
Wind load	Frontal: 30 N (at 150 km/h) Lateral: 5 N (at 150 km/h) Rearside: 40 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	284 x 172 x 62 mm
Height/width/depth	182 / 155 / 36 mm



Horizontal Pattern

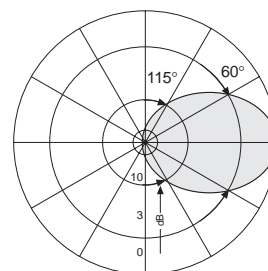


Vertical Pattern

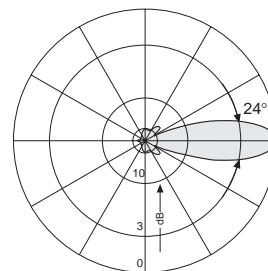


F-Panel DECT 60° 13dBi

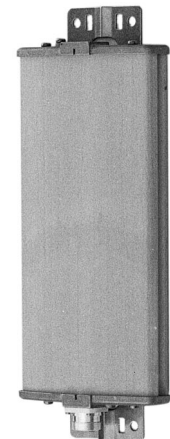
Type No.	738 162
Input	TNC female
Connector position	Bottom or top
Frequency range	1880 – 1930 MHz
VSWR	< 1.3 (1880 – 1900 MHz) < 1.5 (1900 – 1930 MHz)
Gain	13 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 60°/ E-plane: 24°
Max. power	100 Watt (at 50 °C ambient temperature)
Weight	1.7 kg
Wind load	Frontal: 60 N (at 150 km/h) Lateral: 15 N (at 150 km/h) Rearside: 75 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	444 x 172 x 62 mm
Height/width/depth	342 / 155 / 36 mm



Horizontal Pattern



Vertical Pattern



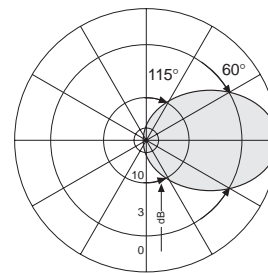
Eurocell F-Panels DECT

Vertical Polarization

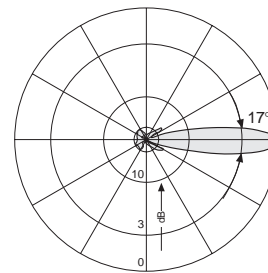
60° Half-power Beam Width

F-Panel DECT 60° 14.5dBi

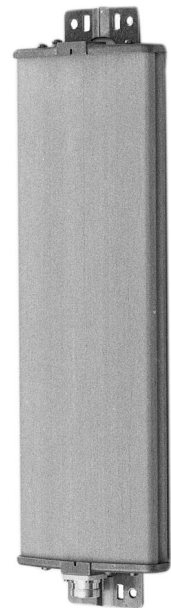
Type No.	738 173
Input	TNC female
Connector position	Bottom or top
Frequency range	1880 – 1930 MHz
VSWR	< 1.3 (1880 – 1900 MHz) < 1.5 (1900 – 1930 MHz)
Gain	14.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 30 dB
Half-power beam width	H-plane: 60°/ E-plane: 17°
Max. power	100 Watt (at 50 °C ambient temperature)
Weight	2.2 kg
Wind load	Frontal: 95 N (at 150 km/h) Lateral: 20 N (at 150 km/h) Rearside: 110 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	604 x 172 x 62 mm
Height/width/depth	502 / 155 / 36 mm



Horizontal Pattern

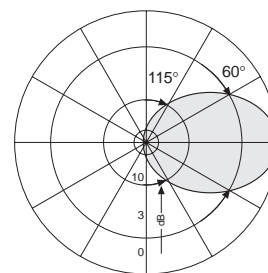


Vertical Pattern

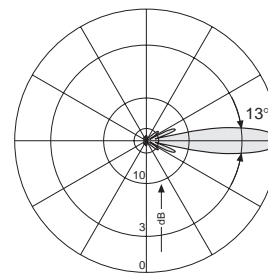


F-Panel DECT 60° 16dBi

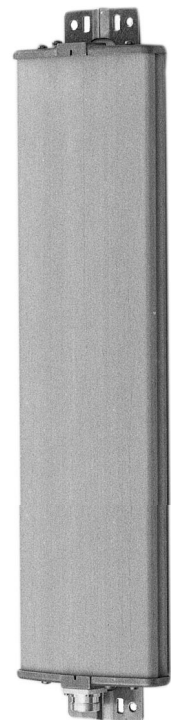
Type No.	738 163
Input	TNC female
Connector position	Bottom or top
Frequency range	1880 – 1930 MHz
VSWR	< 1.3 (1880 – 1900 MHz) < 1.5 (1900 – 1930 MHz)
Gain	16 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 30 dB
Half-power beam width	H-plane: 60°/ E-plane: 13°
Max. power	100 Watt (at 50 °C ambient temperature)
Weight	2.7 kg
Wind load	Frontal: 130 N (at 150 km/h) Lateral: 25 N (at 150 km/h) Rearside: 150 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	764 x 172 x 62 mm
Height/width/depth	662 / 155 / 36 mm



Horizontal Pattern



Vertical Pattern



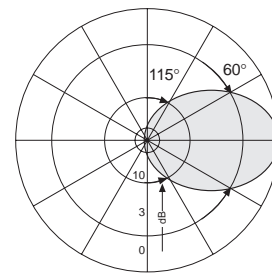
Eurocell F-Panels DECT

Vertical Polarization

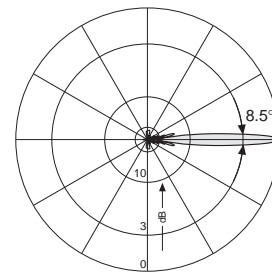
60° Half-power Beam Width

F-Panel DECT 60° 17.5dBi

Type No.	738 174
Input	TNC female
Connector position	Bottom or top
Frequency range	1880 – 1930 MHz
VSWR	< 1.3 (1880 – 1900 MHz) < 1.5 (1900 – 1930 MHz)
Gain	17.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 30 dB
Half-power beam width	H-plane: 60°/ E-plane: 8.5°
Max. power	100 Watt (at 50 °C ambient temperature)
Weight	3.7 kg
Wind load	Frontal: 190 N (at 150 km/h) Lateral: 40 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1084 x 172 x 62 mm
Height/width/depth	982 / 155 / 36 mm



Horizontal Pattern

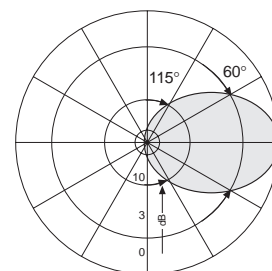


Vertical Pattern

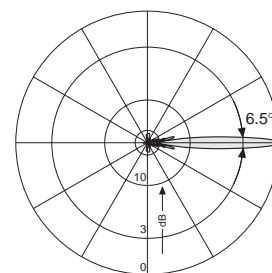


F-Panel DECT 60° 18.5dBi

Type No.	738 164
Input	TNC female
Connector position	Bottom or top
Frequency range	1880 – 1930 MHz
VSWR	< 1.4 (1880 – 1900 MHz) < 1.5 (1900 – 1930 MHz)
Gain	18.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 30 dB
Half-power beam width	H-plane: 60°/ E-plane: 6.5°
Max. power	100 Watt (at 50 °C ambient temperature)
Weight	4.6 kg
Wind load	Frontal: 260 N (at 150 km/h) Lateral: 55 N (at 150 km/h) Rearside: 310 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1404 x 172 x 62 mm
Height/width/depth	1302 / 155 / 36 mm



Horizontal Pattern



Vertical Pattern

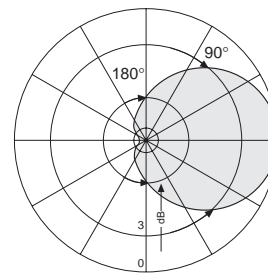
Eurocell F-Panels DECT

Vertical Polarization

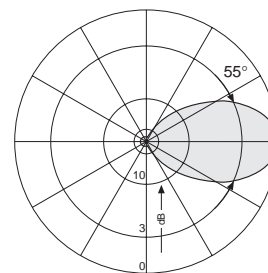
90° Half-power Beam Width

F-Panel DECT 90° 8.5dBi

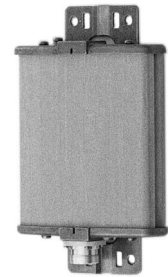
Type No.	738 165
Input	TNC female
Connector position	Bottom or top
Frequency range	1880 – 1930 MHz
VSWR	< 1.3 (1880 – 1900 MHz) < 1.5 (1900 – 1930 MHz)
Gain	8.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 20 dB
Half-power beam width	H-plane: 90°/ E-plane: 55°
Max. power	100 Watt (at 50 °C ambient temperature)
Weight	1.4 kg
Wind load	Frontal: 30 N (at 150 km/h) Lateral: 15 N (at 150 km/h) Rearside: 40 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	284 x 172 x 72 mm
Height/width/depth	182 / 155 / 49 mm



Horizontal Pattern

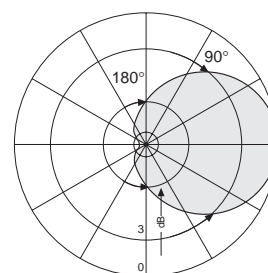


Vertical Pattern

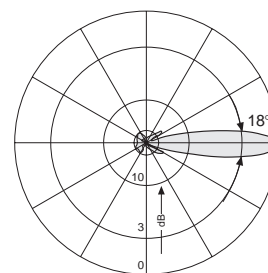


F-Panel DECT 90° 12.5dBi

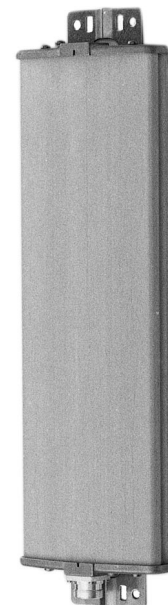
Type No.	738 166
Input	TNC female
Connector position	Bottom or top
Frequency range	1880 – 1930 MHz
VSWR	< 1.3 (1880 – 1900 MHz) < 1.5 (1900 – 1930 MHz)
Gain	12.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 22 dB
Half-power beam width	H-plane: 90°/ E-plane: 18°
Max. power	100 Watt (at 50 °C ambient temperature)
Weight	2.3 kg
Wind load	Frontal: 90 N (at 150 km/h) Lateral: 40 N (at 150 km/h) Rearside: 110 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	604 x 172 x 72 mm
Height/width/depth	502 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern



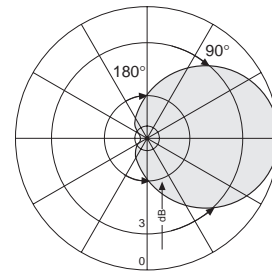
Eurocell F-Panels DECT

Vertical Polarization

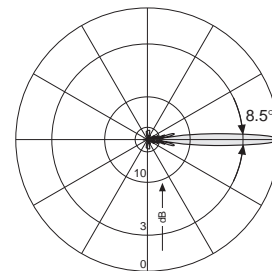
90° Half-power Beam Width

F-Panel DECT 90° 15.5dBi

Type No.	738 167
Input	TNC female
Connector position	Bottom or top
Frequency range	1880 – 1930 MHz
VSWR	< 1.3 (1880 – 1900 MHz) < 1.5 (1900 – 1930 MHz)
Gain	15.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 23 dB
Half-power beam width	H-plane: 90°/ E-plane: 8.5°
Max. power	100 Watt (at 50 °C ambient temperature)
Weight	3.9 kg
Wind load	Frontal: 180 N (at 150 km/h) Lateral: 80 N (at 150 km/h) Rearside: 230 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1084 x 172 x 72 mm
Height/width/depth	982 / 155 / 49 mm



Horizontal Pattern

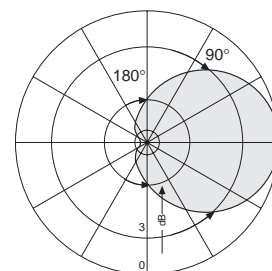


Vertical Pattern

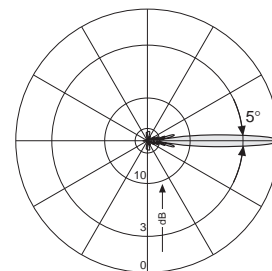


F-Panel DECT 90° 18dBi

Type No.	738 168
Input	TNC female
Connector position	Bottom or top
Frequency range	1880 – 1930 MHz
VSWR	< 1.3 (1880 – 1900 MHz) < 1.5 (1900 – 1930 MHz)
Gain	18 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 23 dB
Half-power beam width	H-plane: 90°/ E-plane: 5°
Max. power	100 Watt (at 50 °C ambient temperature)
Weight	6.9 kg
Wind load	Frontal: 380 N (at 150 km/h) Lateral: 180 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2044 x 172 x 72 mm
Height/width/depth	1942 / 155 / 49 mm



Horizontal Pattern



Vertical Pattern

Eurocell F-Panels WLL

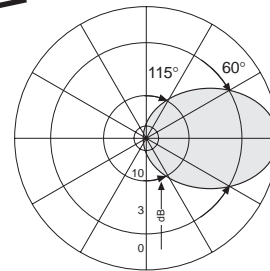
Vertical Polarization

60°/90° Half-power Beam Width

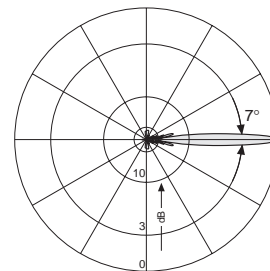
F-Panel 3600 60° 17.5dBi

Preliminary Issue

Type No.	741 627
Input	N female
Connector position	Bottom or top
Frequency range	3400 – 3800 MHz
VSWR	< 1.5
Gain	17.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 25 dB
Half-power beam width	H-plane: 60°/ E-plane: 7°
Max. power per input	150 Watt (at 50 °C ambient temperature)
Weight	2 kg
Wind load	Frontal: 90 N (at 150 km/h) Lateral: 45 N (at 150 km/h) Rearside: 90 N (at 150 km/h)
Max. wind velocity	200 km/h
Height/width/depth	662 / 95 / 49 mm



Horizontal Pattern



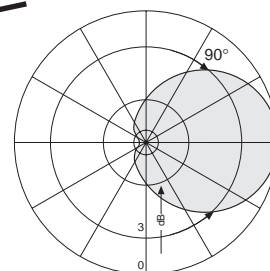
Vertical Pattern



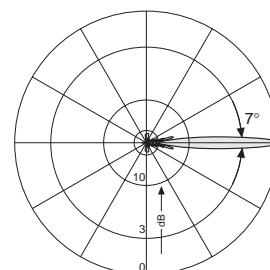
F-Panel 3600 90° 16dBi

Preliminary Issue

Type No.	741 628
Input	N female
Connector position	Bottom or top
Frequency range	3400 – 3800 MHz
VSWR	< 1.5
Gain	16 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 23 dB
Half-power beam width	H-plane: 90°/ E-plane: 7°
Max. power per input	150 Watt (at 50 °C ambient temperature)
Weight	2 kg
Wind load	Frontal: 90 N (at 150 km/h) Lateral: 45 N (at 150 km/h) Rearside: 90 N (at 150 km/h)
Max. wind velocity	200 km/h
Height/width/depth	662 / 95 / 49 mm



Horizontal Pattern



Vertical Pattern



Eurocell F-Panels WLL

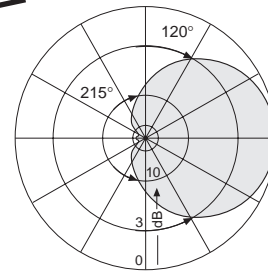
Vertical Polarization

120°/180° Half-power Beam Width

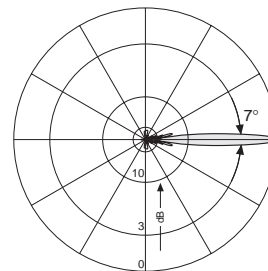
F-Panel 3600 120° 15dBi

Preliminary Issue

Type No.	741 629
Input	N female
Connector position	Bottom or top
Frequency range	3400 – 3800 MHz
VSWR	< 1.5
Gain	15 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 20 dB
Half-power beam width	H-plane: 120°/ E-plane: 7°
Max. power per input	150 Watt (at 50 °C ambient temperature)
Weight	2 kg
Wind load	Frontal: 90 N (at 150 km/h) Lateral: 45 N (at 150 km/h) Rearside: 90 N (at 150 km/h)
Max. wind velocity	200 km/h
Height/width/depth	662 / 95 / 49 mm



Horizontal Pattern



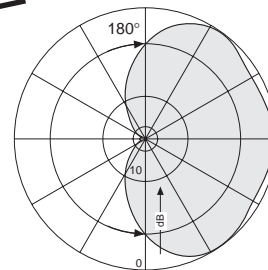
Vertical Pattern



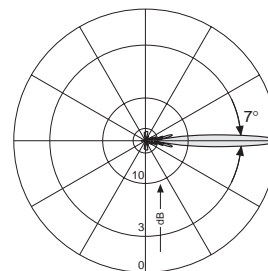
F-Panel 3600 180° 13dBi

Preliminary Issue

Type No.	741 630
Input	N female
Connector position	Bottom or top
Frequency range	3400 – 3800 MHz
VSWR	< 1.5
Gain	13 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 18 dB
Half-power beam width	H-plane: 180°/ E-plane: 7°
Max. power per input	150 Watt (at 50 °C ambient temperature)
Weight	2 kg
Wind load	Frontal: 90 N (at 150 km/h) Lateral: 45 N (at 150 km/h) Rearside: 90 N (at 150 km/h)
Max. wind velocity	200 km/h
Height/width/depth	662 / 95 / 49 mm



Horizontal Pattern



Vertical Pattern

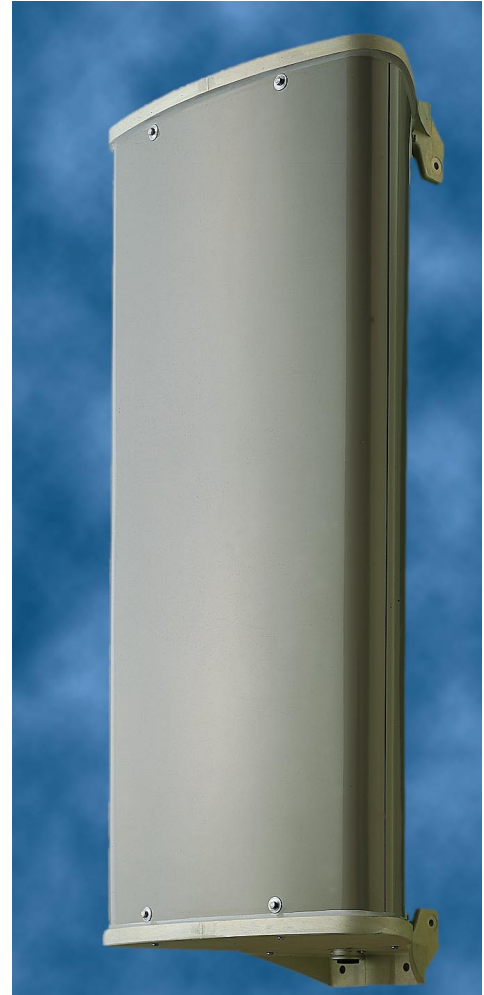
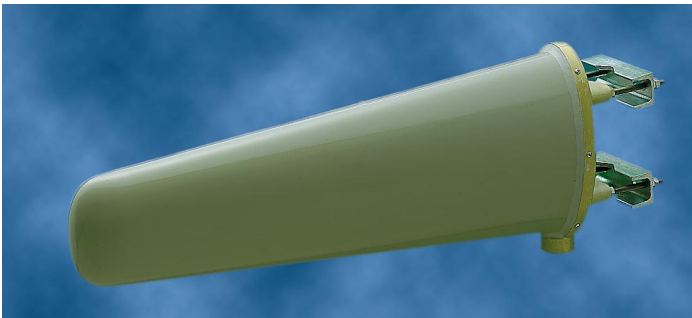


Antennas for

- repeaters
- railway use
- micro cells (street use)
- enduser DECT mini panel.

The distinguishing features of these special versions, e.g. parabolic panels or log. periodic antennas, are:

- very small half-power beam width (high gain)
- high sidelobe suppression
- also dual band versions
- bidirectional horizontal pattern.



Vertical Polarization

Type	Type No.	Frequency range	Connector female	Height	Page
Panel 900 20° 16.5 dBi	735 727	870 – 960 MHz	7-16	500 mm	123
ParPanel 900 36° 14.5 dBi	728 685	870 – 960 MHz	7-16	650 mm	124
ParPanel 900 36° 17.5 dBi	728 684	870 – 960 MHz	7-16	1290 mm	125
ParPanel 900 36° 20 dBi	K 73 45 64 7	870 – 960 MHz	7-16	2250 mm	126
LogPer 900 51° 12 dBi	K 73 22 67	790 – 960 MHz	7-16	300 mm	127
LogPer 900 72° 10 dBi	K 72 23 67	790 – 960 MHz	7-16	280 mm	128
LogPer 450/900 68°/60° 10.5/11.5 dBi	739 990	440 – 512 MHz 824 – 960 MHz	7-16	1160 mm	129
BiDir 900 65° 5 dBi	729 931	860 – 960 MHz	7-16	310 mm	130
BiDir 900/1800 65° 5 dBi	738 444	870 – 960 MHz 1710 – 1880 MHz	7-16	310 mm	131
MiniPanel 1900 90° 7.5 dBi	739 099	1880 – 1930 MHz	7-16	118 mm	132

Special Directional Antennas GSM 900

Panel – Vertical Polarization

20° Half-power Beam Width

Panel 900 20° 16.5dBi

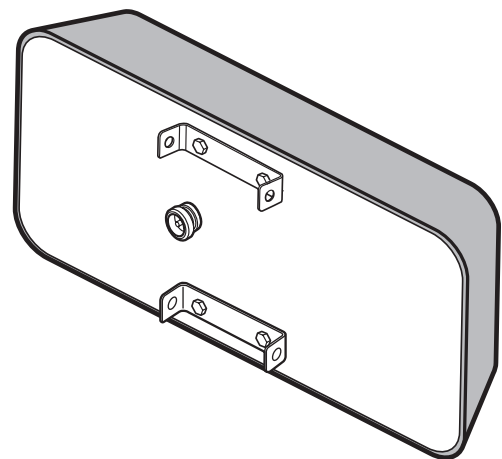
Type No.	735 727
Input	7-16 female
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	16.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 24 dB
Half-power Beam Width	H-plane: 20°/ E-plane: 33°
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	10 kg
Wind load	Frontal: 500 N (at 150 km/h) Lateral: 110 N (at 150 km/h) Rearside: 715 N (at 150 km/h)
Max. wind velocity	230 km/h
Packing size	1062 x 562 x 275 mm
Height/width/depth	492 / 992 / 190 mm



Material: Radiator: Aluminum.
Reflector screen: Weather-proof aluminum.
Radome: Fiberglass, colour: White.
All screws and nuts: Stainless steel.

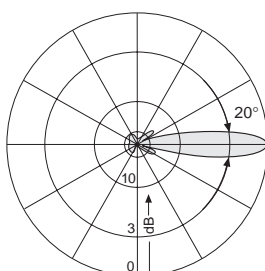
Ice protection: Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains operational even under icy conditions.

Grounding: All metal parts of the antenna as well as the inner conductor are DC grounded.

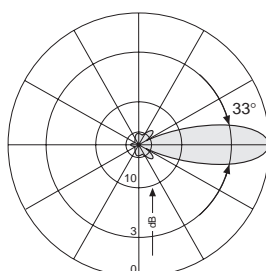


Accessories (order separately)

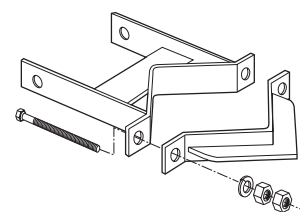
Type No.	Description	Remarks
K 61 14 02	2 clamps	Mast: 60 – 115 mm diameter
K 61 14 03	2 clamps	Mast: 115 – 210 mm diameter
K 61 14 04	2 clamps	Mast: 210 – 380 mm diameter
K 61 14 05	2 clamps	Mast: 380 – 521 mm diameter



Horizontal Pattern



Vertical Pattern



K 61 14 03

Special Directional Antennas GSM 900

Parabolic Panel – Vertical Polarization

36° Half-power Beam Width

ParPanel 900 36° 14.5dBi

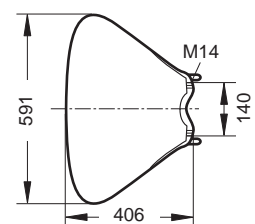
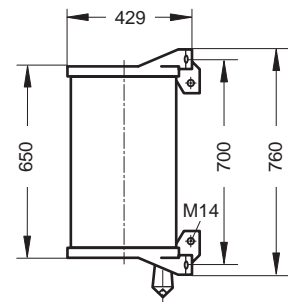
Type No.	728 685
Input	7-16 female
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	14.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 25 dB
Half-power Beam Width	H-plane: 36°/ E-plane: 26°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	14.5 kg
Wind load	Frontal: 275 N (at 150 km/h) Lateral: 200 N (at 150 km/h) Rearside: 275 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	820 x 640 x 465 mm
Height/width/depth	650 / 591 / 406 mm



Material: Radiator: Weather-proof aluminum.
Reflector screen: Weather-proof aluminum.
Radome: Fiberglass, colour: Grey.
All screws and nuts: Stainless steel.

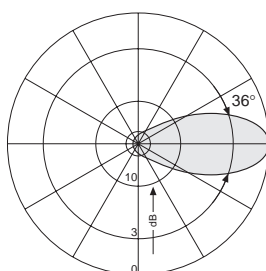
Ice protection: Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains operational even under icy conditions.

Grounding: All metal parts of the antenna are DC grounded.
The inner conductor is coupled capacitively.

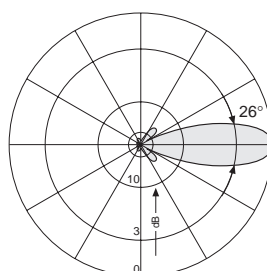


Accessories (order separately)

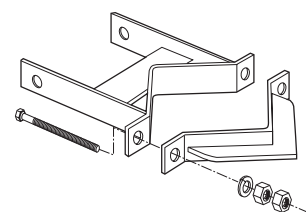
Type No.	Description	Remarks
733 736	2 clamps	Mast: 50 – 125 mm diameter
K 61 14 03	2 clamps	Mast: 115 – 210 mm diameter
K 61 14 04	2 clamps	Mast: 210 – 380 mm diameter
K 61 14 05	2 clamps	Mast: 380 – 521 mm diameter
733 695	1 downtilt kit	Downtilt angle: 0° – 33° Use the downtilt kit together with 2 clamps suitable for the mast diameter.



Horizontal Pattern



Vertical Pattern



K 61 14 03

Special Directional Antennas GSM 900

Parabolic Panel – Vertical Polarization

36° Half-power Beam Width

ParPanel 900 36° 17.5dBi

Type No.	728 684
Input	7-16 female
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	17.5 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 30 dB
Half-power Beam Width	H-plane: 36°/ E-plane: 13°
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	21 kg
Wind load	Frontal: 550 N (at 150 km/h) Lateral: 350 N (at 150 km/h) Rearside: 550 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1460 x 640 x 465 mm
Height/width/depth	1290 / 591 / 406 mm

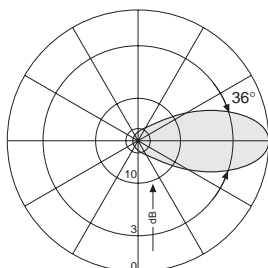
Material: Radiator: Weather-proof aluminum.
Reflector screen: Weather-proof aluminum.
Radome: Fiberglass, colour: Grey.
All screws and nuts: Stainless steel.

Ice protection: Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains operational even under icy conditions.

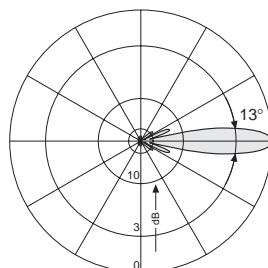
Grounding: All metal parts of the antenna are DC grounded.
The inner conductor is coupled capacitively.

Accessories (order separately)

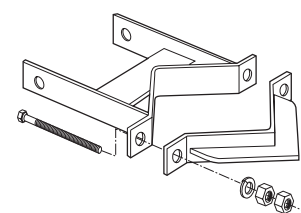
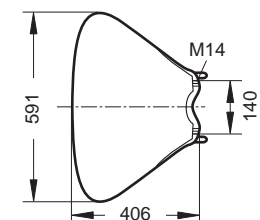
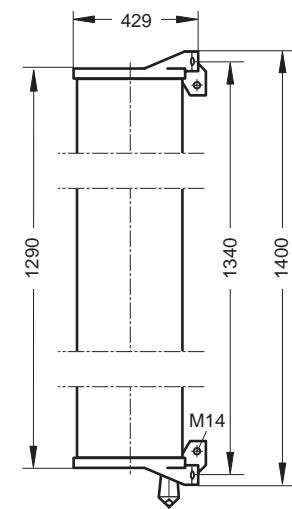
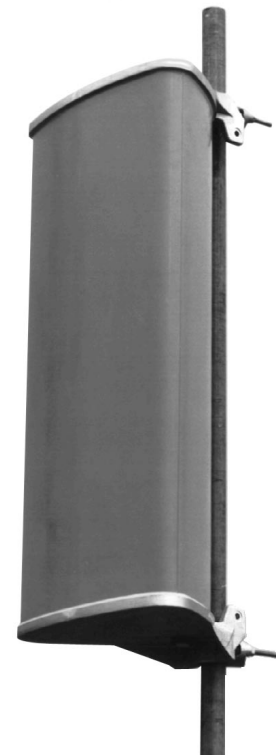
Type No.	Description	Remarks
733 736	2 clamps	Mast: 50 – 125 mm diameter
K 61 14 03	2 clamps	Mast: 115 – 210 mm diameter
K 61 14 04	2 clamps	Mast: 210 – 380 mm diameter
K 61 14 05	2 clamps	Mast: 380 – 521 mm diameter
733 695	1 downtilt kit	Downtilt angle: 0° – 16° Use the downtilt kit together with 2 clamps suitable for the mast diameter.



Horizontal Pattern



Vertical Pattern



K 61 14 03

Special Directional Antennas GSM 900

Parabolic Panel – Vertical Polarization

36° Half-power Beam Width

ParPanel 900 36° 20dBi

Type No.	K 73 45 64 7
Input	7-16 female
Frequency range	870 – 960 MHz
VSWR	< 1.3
Gain	20 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back-ratio	> 30 dB
Half-power Beam Width	H-plane: 36°/ E-plane: 8°
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	30 kg
Wind load	Frontal: 950 N (at 150 km/h) Lateral: 600 N (at 150 km/h) Rearside: 950 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2420 x 640 x 465 mm
Height/width/depth	2250 / 591 / 406 mm

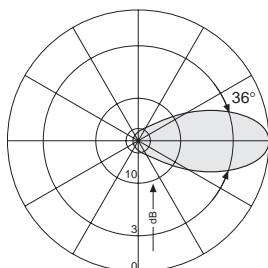
Material: Radiator: Weather-proof aluminum.
Reflector screen: Weather-proof aluminum.
Radome: Fiberglass, colour: Grey.
All screws and nuts: Stainless steel.

Ice protection: Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains operational even under icy conditions.

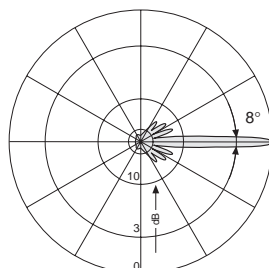
Grounding: All metal parts of the antenna are DC grounded.
The inner conductor is coupled capacitively.

Accessories (order separately)

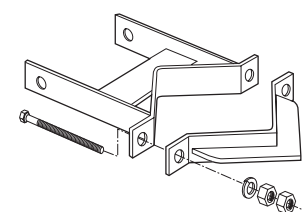
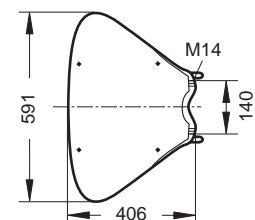
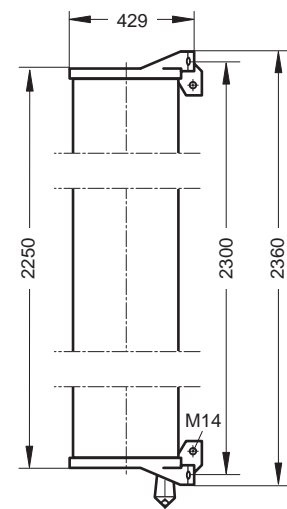
Type No.	Description	Remarks
733 736	2 clamps	Mast: 50 – 125 mm diameter
K 61 14 03	2 clamps	Mast: 115 – 210 mm diameter
K 61 14 04	2 clamps	Mast: 210 – 380 mm diameter
K 61 14 05	2 clamps	Mast: 380 – 521 mm diameter
733 695	1 downtilt kit	Downtilt angle: 0° – 10° Use the downtilt kit together with 2 clamps suitable for the mast diameter.



Horizontal Pattern



Vertical Pattern



K 61 14 03

Special Directional Antennas GSM 900

Logarithmic Periodic – Vertical Polarization

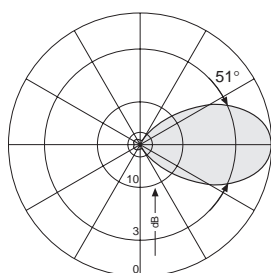
51° Half-power Beam Width

LogPer 900 51° 12dBi

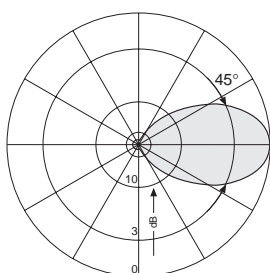
Type No.	K 73 22 67
Input	7-16 female
Frequency range	790 – 960 MHz
VSWR	< 1.4
Gain	12 dBi
Impedance	50 Ω
Polarization	Vertical
Side-lobe supression	> 25 dB
Front-to-back-ratio	> 30 dB
Half-power Beam Width	H-plane: 51°/ E-plane: 45°
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	6.3 kg
Wind load	Frontal: 20 N (at 150 km/h) Lateral: 260 N (at 150 km/h) Rearside: 30 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1000 x 360 x 175 mm
Height/width/depth	300 / 155 / 785 mm



- Material:** Radiator: Weather-proof aluminum.
Reflector screen: Weather-proof aluminum.
Radome: Fiberglass, colour: Grey.
All screws and nuts: Stainless steel.
- Mounting:** The antenna can be mounted on tubular mast with a diameter of 30 – 70 mm with supplied clamps.
- Ice protection:** Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains operational even under icy conditions.
- Grounding:** All metal parts of the antenna as well as the inner conductor are DC grounded.



Horizontal Pattern



Vertical Pattern

Special Directional Antennas GSM 900

Logarithmic Periodic – Vertical Polarization

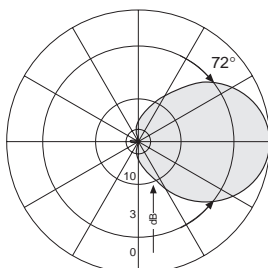
72° Half-power Beam Width

LogPer 900 72° 10dBi

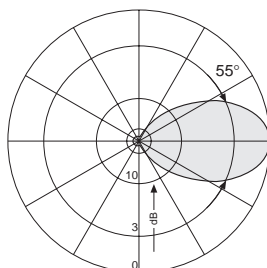
Type No.	K 72 23 67
Input	7-16 female
Frequency range	790 – 960 MHz
VSWR	< 1.5
Gain	10 dBi
Impedance	50 Ω
Polarization	Vertical
Side-lobe supression	> 25 dB
Front-to-back-ratio	> 25 dB
Half-power Beam Width	H-plane: 72°/ E-plane: 55°
Max. power	300 Watt (at 50 °C ambient temperature)
Weight	5.0 kg
Wind load	Frontal: 30 N (at 150 km/h) Lateral: 100 N (at 150 km/h) Rearside: 40 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	322 x 322 x 775 mm
Diameter/depth	280 / 500 mm



- Material:** Radiator: Weather-proof aluminum.
Reflector screen: Weather-proof aluminum.
Radome: Fiberglass, colour: Grey.
All screws and nuts: Stainless steel.
- Mounting:** The antenna can be mounted on tubular mast with a diameter of 50 – 115 mm with supplied clamps.
- Ice protection:** Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains operational even under icy conditions.
- Grounding:** All metal parts of the antenna as well as the inner conductor are DC grounded.



Horizontal Pattern



Vertical Pattern

Special Directional Antennas

Logarithmic-periodic Multiband Antenna

440 – 512 / 824 – 960 MHz

LogPer 450/900 68/60° 10.5/11.5 dBi

Type No.	739 990	
Input	7-16 female	
Frequency range	440 – 512 MHz	824 – 960 MHz
VSWR	< 1.4	
Gain	10.5 dBi	11.5 dBi
Impedance	50 Ω	
Polarization	Vertical	
Half-power beam width		
H-plane	68°	60°
E-plane	54°	48°
Front-to-back-ratio	> 23 dB	> 25 dB
Max. power	100 Watt (at 50 °C ambient temperature)	
Weight	9 kg	
Wind load		
Frontal:	55 N (at 150 km/h)	
Lateral:	440 N (at 150 km/h)	
Max. wind velocity	180 km/h	
Packing size	1172 x 372 x 225 mm	
Length/width/depth	1160 / 350 / 170 mm	



- Material:** Radiator: Weather-proof aluminum.
Radome: Fiberglass, colour: Grey.
All screws and nuts: Stainless steel.
- Mounting:** The antenna can be mounted on tubular mast with a diameter of 48 – 115 mm with supplied clamps.
- Ice protection:** The radiation system ist protected by the radome. Due its very sturdy construction, the antenna remains operational even under icy conditions.
- Grounding:** All metal parts of the antenna including the inner conductor are DC grounded.

Special Directional Antennas GSM 900

Bidirectional Antenna – Vertical Polarization

Due to its bidirectional horizontal pattern this antenna is especially suitable for micro-cell applications covering streets or railway lines.

BiDir 900 65° 5dBi

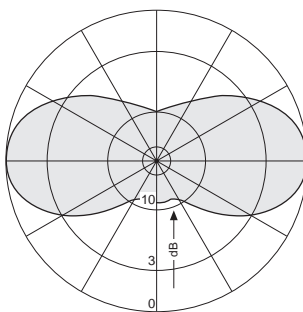
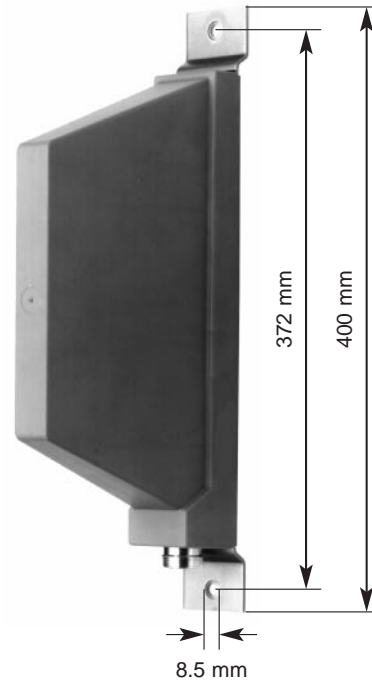
Type No.	729 931
Input	7-16 female
Frequency range	860 – 960 MHz
VSWR	< 1.5
Gain	5 dBi
Impedance	50 Ω
Polarization	Vertical
Max. power	400 Watt (at 50 °C ambient temperature)
Weight	0.8 kg
Wind load	Frontal: 25 N (at 150 km/h) Lateral: 65 N (at 150 km/h) Rearside: 35 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	422 x 212 x 95 mm
Height/width/depth	310 / 55 / 190 mm

Material: Radiator: Silver plated copper.
Reflector screen: Weather-proof aluminum.
Radome: High impact plastic, colour: Grey.
All screws and nuts: Stainless steel.

Mounting: By means of clamps on tubular mast suitable to the diameter: 28 – 64 mm. Please order per antenna 2 clamps type no. 731 651.
Wall mounting: No additional mounting kit needed.

Ice protection: Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains operational even under icy conditions.

Grounding: All metal parts of the antenna as well as the inner conductors are DC grounded.



Horizontal Pattern

Special Directional Antennas

Bidirectional Antenna – Dual band

870 – 960 MHz, 1710 – 1880 MHz

Due to the bidirectional horizontal pattern this antenna has, it is specially suitable for micro-cell applications along streets.

BiDir 900/1800 C 65° 5dBi

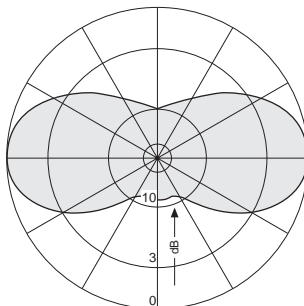
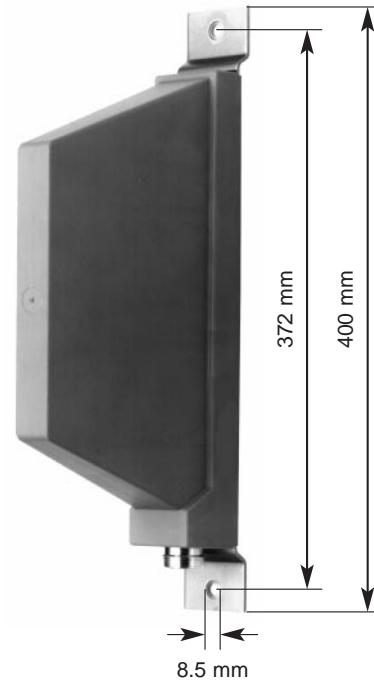
Type No.	738 444
Input	7-16 female (one input)
Frequency range	870 – 960 MHz, 1710 – 1880 MHz
VSWR	< 1.5
Gain	5 dBi
Impedance	50 Ω
Polarization	Vertical
Max. power (total)	200 Watt (at 50 °C ambient temperature)
Weight	0.8 kg
Wind load	Frontal: 25 N (at 150 km/h) Lateral: 65 N (at 150 km/h) Rearside: 35 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	422 x 212 x 95 mm
Height/width/depth	310 / 55 / 190 mm

Material: Radiator: Tin plated copper.
Reflector screen: Weather-proof aluminum.
Radome: High impact plastic, colour: Grey.
All screws and nuts: Stainless steel.

Mounting: By means of clamps on tubular mast suitable to the diameter: 28 – 64 mm. Please order per antenna 2 clamps type no. 731 651.
Wall mounting: No additional mounting kit needed.

Ice protection: The radiating system is protected by the radome. Due to its very sturdy construction, the antenna remains operational even under icy conditions.

Grounding: All metal parts of the antenna as well as the inner conductor are DC grounded.



Typical Horizontal Pattern

Mini Panel DECT – Vertical Polarization 90° Half-power Beam Width

- Directional antenna for indoor and outdoor use.

Panel 1900 90° 7.5dBi

Type No.	739 099
Input	TNC female
Frequency range	1880 – 1930 MHz
VSWR	< 1.5
Gain	7.5 dBi
Impedance	50 Ω
Half-power beam width	H-plane: 90°/ E-plane: 70°
Polarization	Vertical
Front-to-back-ratio	> 20 dB
Max. power	10 Watt (at 50 °C ambient temperature)
Weight	240 g
Packing size	395 x 290 x 200 mm (packing unit 20 pieces)
Height/width/depth	118 / 88 / 38 mm

Scope of supply: Mounting plate and clamp 31 – 48 mm supplied.

Mounting:

- To flat surfaces e. g. house facades using the preattached installation plate. (Mounting screws are not included.)
- To vertical or horizontal pipe masts using the preattached installation plate with clamps.

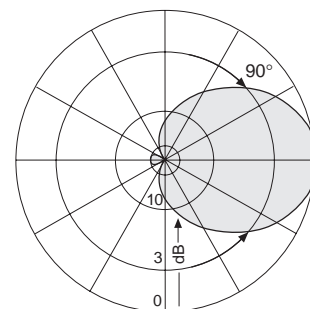
Grounding: All metal parts are DC grounded.
The inner conductor is coupled capacitively.



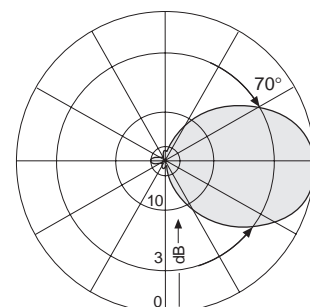
739 353

Accessories (order separately)

Type No.	Description	Remarks
739 352	1 clamp	22 – 33 mm
739 353	1 clamp	31 – 48 mm supplied
739 354	1 clamp	39 – 58 mm



Horizontal Pattern



Vertical Pattern

Solid, reliable construction

Omnidirectional antennas are often installed at exposed sites on the top of masts, so special attention has been paid to their mechanical construction.

The exceptionally stiff fiberglass tube with low tip deflection will withstand wind velocities of up to 200 km/h.

Excellent grounding

From the solid metal tip right down to the base of the high gain antennas the grounding cross-section is 22 mm² copper or more, exceeding EN 50083-1.

Environmental influences

The design of Kathrein antennas is based on fundamental engineering knowledge and also on decades of practical experience, during which the various constructions and materials used have proved their outstanding reliability.

Environmental conditions

Kathrein cellular antennas are designed to operate under the environmental conditions as described in ETS 300 019-1-4 class 4.1 E. The antennas exceed this standard with regard to the following items:

- Low temperature: – 55 °C
- High temperature (dry): + 60 °C

Environmental tests

Kathrein antennas have passed environmental tests as recommended in ETS 300 019-2-4. The homogenous design of Kathrein's antenna families use identical modules and materials. Extensive tests have been performed on typical samples and modules.

Long service life

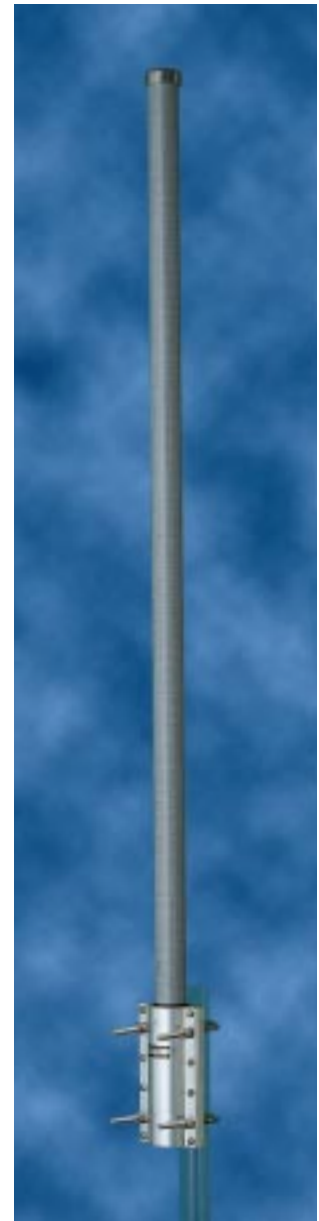
According to our own experience, the outstanding mechanical characteristics of Kathrein antennas result in an antenna service life of over 15 years.

Low intermodulation products (typically -150 dBc)

From on our many years of experience in the construction of antennas and from our extensive research into the effects of intermodulation, we have been able to optimize the material used for these antennas. (The indicated values refer to 3rd order products measured with 2 carriers of 20 W each).

Integrated mast attachment

Integrated into the antenna base are two easily mountable U-bolt brackets, suitable for masts of diameters from 50 to 94 mm or 30 – 105 mm.



Summary – Omnidirectional Antennas GSM 900

Vertical Polarization

Type	Type No.	Frequency range	Connector female	Height	Remarks	Page
Omni 900 360° 2 dBi	738 450	870 – 960 MHz	N	180 mm	indoor/outdoor	157
Omni 900 360° 2 dBi	K 75 11 61	806 – 960 MHz	N	273 mm		135
Omni 900 360° 2 dBi	K 75 11 67	806 – 960 MHz	7-16	273 mm		135
Omni 900 360° 5 dBi	K 75 15 64 1	890 – 960 MHz	N	635 mm		136
Omni 900 360° 5 dBi	K 75 15 64 7	890 – 960 MHz	7-16	635 mm		136
Omni 900 360° 8 dBi	736 350	870 – 960 MHz	7-16	1543 mm	inverted	137
Omni 900 360° 8 dBi	736 351	870 – 960 MHz	7-16	1536 mm		137
Omni 800 360° 11 dBi	738 192	824 – 894 MHz	7-16	3237 mm		138
Omni 900 360° 11 dBi	736 347	870 – 960 MHz	7-16	3033 mm	inverted special base	139
Omni 900 360° 11 dBi	736 348	870 – 960 MHz	7-16	3022 mm		139
Omni 900 360° 11 dBi	738 779	870 – 960 MHz	7-16	3254 mm		140
Omni 900 360° 11 dBi	736 352	870 – 960 MHz	7-16	3233 mm	lightning rod	141
Omni 900 360° 10.5 dBi 5°T	736 349	870 – 960 MHz	7-16	2954 mm	inverted	142
Omni 900 360° 10.5 dBi 5°T	738 664	870 – 960 MHz	7-16	2856 mm		142

Summary – Omnidirectional Antennas GSM 1800 / PCS / DECT / WLL

Vertical Polarization

Type	Type No.	Operating range	Frequency	Height	Connector position	Page
Omni 1800 360° 2 dBi	738 451	GSM 1800	1710 – 1900 MHz	120 mm	bottom or top	157
Omni 1800 360° 8 dBi	739 785	GSM 1800	1710 – 1880 MHz	800 mm	bottom	143
Omni 1800 360° 11 dBi	738 187	GSM 1800	1710 – 1880 MHz	1570 mm	bottom	144
Omni 1800 360° 11 dBi	739 404	GSM 1800	1700 – 1880 MHz	1558 mm	top	144
Omni 1800 360° 11 dBi 6°T	737 190	GSM 1800	1710 – 1880 MHz	1560 mm	bottom	145
Omni 1900 360° 11 dBi	737 402	PCS/DECT	1850 – 1990 MHz	1494 mm	bottom	146
Omni 1900 360° 11 dBi	739 752	PCS/DECT	1850 – 1990 MHz	1465 mm	top	146
Omni 3600 360° 10 dBi 2°T	741 697	WLL	3400 – 3600 MHz	860 mm	bottom	147

Omnidirectional Antennas GSM 900

Vertical Polarization

Omni 900 360° 2dBi

Type No.	K 75 11 61	K 75 11 67
Input	N female	7-16 female
Connector position	Bottom	
Frequency range	806 – 960 MHz	
VSWR	< 1.5	
Gain	2 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Max. power	100 Watt (at 50 °C ambient temperature)	
Weight	0.74 kg	
Radome diameter	21 mm	
Wind load	17 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	455 x 112 x 97 mm	
Height	348 mm	

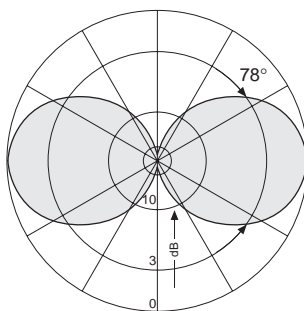


Material: Radiator: Brass.
Radome: Fiberglass, colour: Grey.
Base: Weather-proof aluminum.
Mounting kit, screws and nuts: Stainless steel.

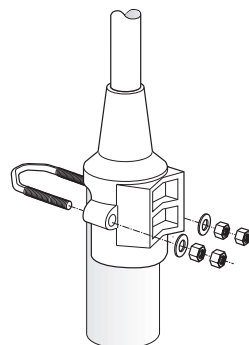
Mounting: The antenna can be attached in two ways with the supplied mounting kit:

1. On the tip of a tubular mast of 40 – 54 mm diameter (connecting cable runs inside the mast).
2. Laterally at the tip of a tubular mast of 20 – 54 mm diameter (connecting cable runs outside the mast).

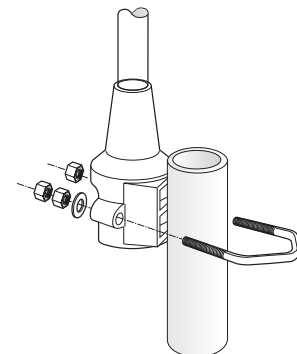
Grounding: All metal parts of the antenna as well as the inner conductor and the mounting kit are DC grounded.



Vertical Pattern



On the tip



Laterally at the tip

Omnidirectional Antennas GSM 900

Vertical Polarization

Omni 900 360° 5dBi

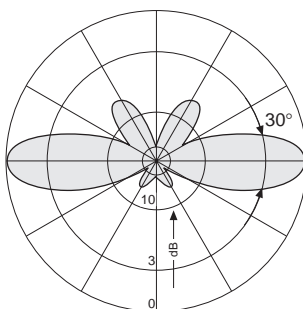
Type No.	K 75 15 64 1	K 75 15 64 7
Input	N female	7-16 female
Connector position	Bottom	
Frequency range	890 – 960 MHz	
Gain	5 dBi	
VSWR	< 1.5	
Impedance	50 Ω	
Polarization	Vertical	
Max. power	250 Watt (at 50 °C ambient temperature)	
Weight	0.90 kg	
Radome diameter	21 mm	
Wind load	20 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	825 x 112 x 97 mm	
Height	715 mm	

Material: Radiator: Brass.
Radome: Fiberglass, colour: Grey.
Base: Weather-proof aluminum.
Mounting kit, screws and nuts: Stainless steel.

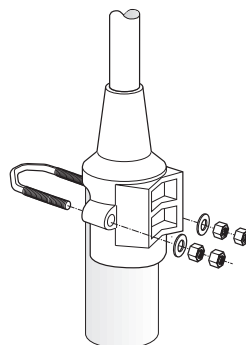
Mounting: The antenna can be attached in two ways with the supplied mounting kit:

1. On the tip of a tubular mast of 40 – 54 mm diameter (connecting cable runs inside the mast).
2. Laterally at the tip of a tubular mast of 20 – 54 mm diameter (connecting cable runs outside the mast).

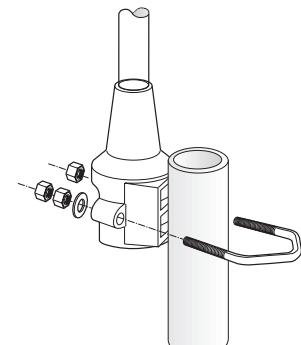
Grounding: All metal parts of the antenna as well as the inner conductor and the mounting kit are DC grounded.



Vertical Pattern



On the tip



Laterally at the tip

Omnidirectional Antennas GSM 900 Vertical Polarization

- High gain

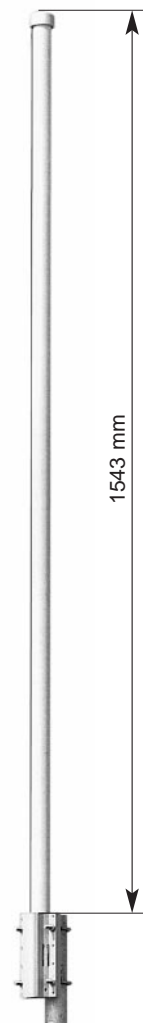
Omni 900 360° 8dBi

Type No.	736 350	736 351
Input	7-16 female	7-16 female
Connector position	Bottom	Top
Frequency range	870 – 960 MHz	
VSWR	< 1.5	
Gain	8 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	5.5 kg	
Windload	130 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Radome diameter	51 mm	
Packing size	1846 x 148 x 112 mm	
Height	1543 mm	1536 mm

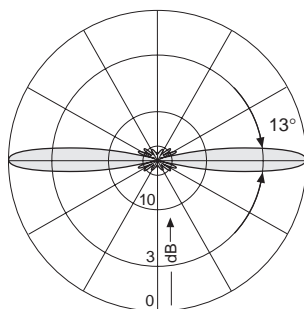
Material: Radiator: Copper and brass.
Radome: Fiberglass, colour: Grey.
Base: Weather-proof aluminum.
Mounting kit, screws and nuts: Stainless steel.

Mounting: The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter (connecting cable runs outside the mast).

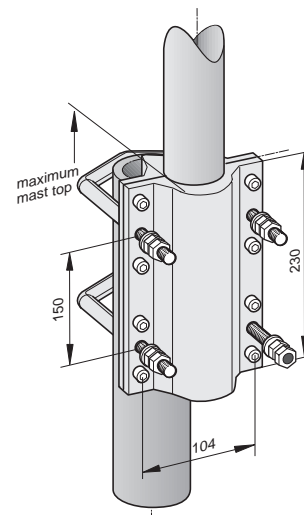
Grounding: The antenna is DC grounded via a copper tube having a cross-sectional area of 22 mm².
The inner conductor is coupled capacitively.



736 350



Vertical Pattern



Omnidirectional Antennas AMPS

Vertical Polarization

- High gain

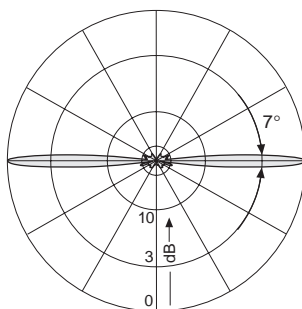
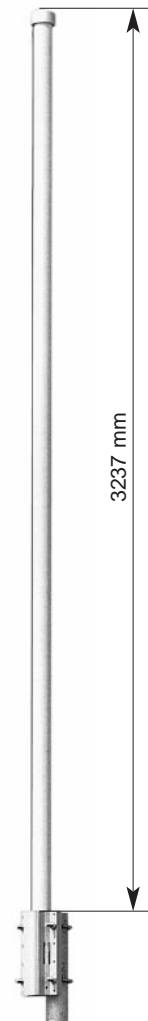
Omni 800 360° 11dBi

Type No.	738 192
Input	7-16 female
Connector position	Bottom
Frequency range	824 – 894 MHz
VSWR	< 1.5
Gain	11 dBi
Impedance	50 Ω
Polarization	Vertical
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	8.5 kg
Radome diameter	51 mm
Wind load	230 N (at 150 km/h)
Max. wind velocity	180 km/h
Packing size	3516 x 148 x 112 mm
Height	3237 mm

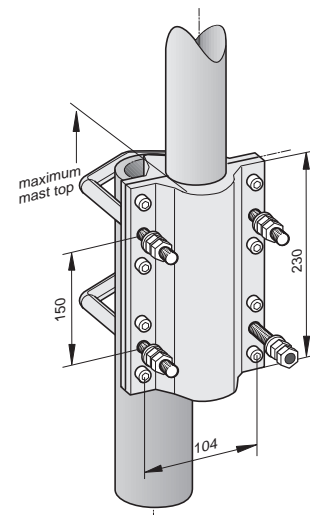
Material: Radiator: Copper and brass.
Radome: Fiberglass, colour: Grey.
Base: Weather-proof aluminum.
Mounting kit, screws and nuts: Stainless steel.

Mounting: The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter (connecting cable runs outside the mast).

Grounding: The antenna is DC grounded via a copper tube having a cross-sectional area of 22mm². The inner conductor is coupled capacitively.



Vertical Pattern



Omnidirectional Antennas GSM 900 Vertical Polarization

- High gain

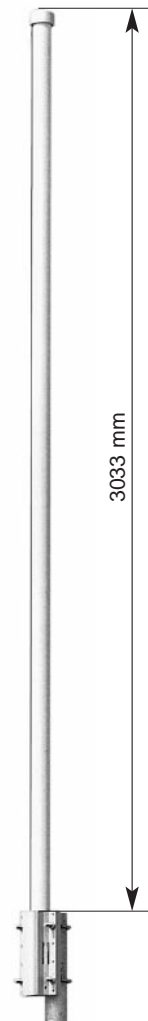
Omni 900 360° 11dBi

Type No.	736 347	736 348
Input	7-16 female	7-16 female
Connector position	Bottom	Top
Frequency range	870 – 960 MHz	
VSWR	< 1.5	
Gain	11 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	8 kg	
Radome diameter	51 mm	
Wind load	210 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	3316 x 148 x 112 mm	
Height	3033 mm	3022 mm

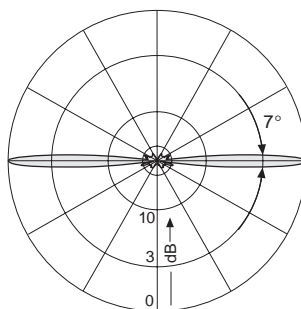
Material:
 Radiator: Copper and brass.
 Radome: Fiberglass, colour: Grey.
 Base: Weather-proof aluminum.
 Mounting kit, screws and nuts: Stainless steel.

Mounting:
 The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter (connecting cable runs outside the mast).

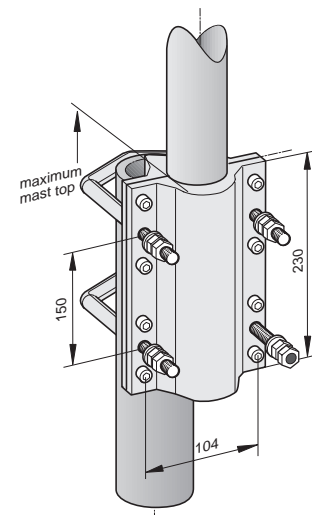
Grounding:
 The antenna is DC grounded via a copper tube having a cross-sectional area of 22mm². The inner conductor is coupled capacitively.



736 347



Vertical Pattern



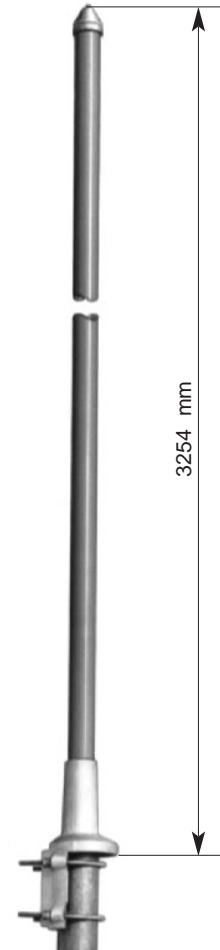
Omnidirectional Antennas GSM 900

Vertical Polarization

- High gain
- Special base

Omni 900 360° 11dBi

Type No.	738 779
Input	7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.5
Gain	11 dBi
Impedance	50 Ω
Polarization	Vertical
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	8.5 kg
Radome diameter	51 mm
Wind load	215 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	3440 x 198 x 152 mm
Height	3254 mm

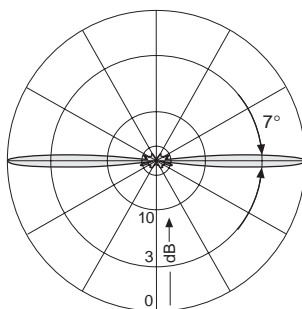


Material: Radiator: Copper and brass.
Radome: Fiberglass, colour: Grey.
Base: Weather-proof aluminum.
Mounting kit, screws and nuts: Stainless steel.

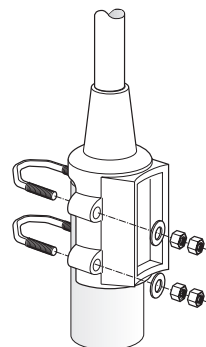
Mounting: The antenna can be attached in two ways with the supplied mounting kit:

1. On the tip of a tubular mast of 65 – 105 mm diameter (connecting cable runs inside the mast).
2. Laterally at the tip of a tubular mast of 30 – 90 mm diameter (connecting cable runs outside the mast).

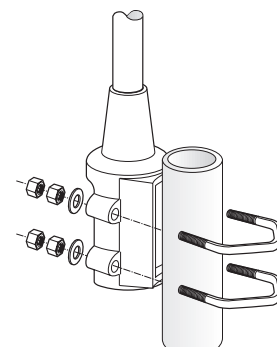
Grounding: The antenna is DC grounded via a copper tube having a cross-sectional area of 22 mm². The inner conductor is coupled capacitively.



Vertical Pattern



On the tip



Laterally at the tip

Omnidirectional Antennas GSM 900

Vertical Polarization

- High gain
- Lightning rod

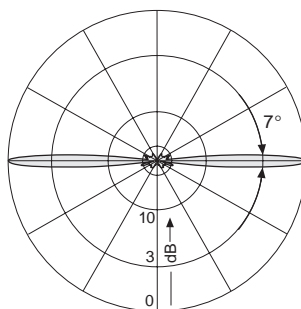
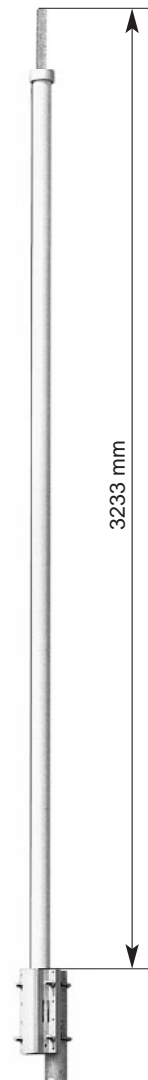
Omni 900 360° 11dBi

Type No.	736 352
Input	7-16 female
Connector position	Bottom
Frequency range	870 – 960 MHz
VSWR	< 1.5
Gain	11 dBi
Impedance	50 Ω
Polarization	Vertical
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	8.5 kg
Radome diameter	51 mm
Wind load	220 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	3504 x 188 x 102 mm
Height	3233 mm

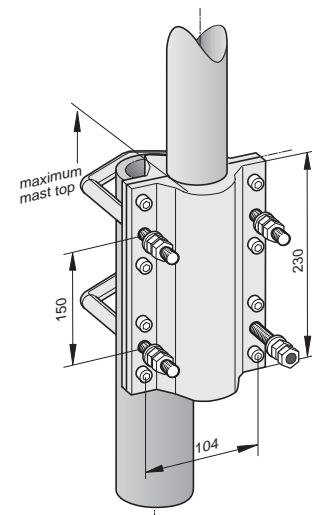
Material: Radiator: Copper and brass.
Radome: Fiberglass, colour: Grey.
Base: Weather-proof aluminum.
Mounting kit, screws and nuts: Stainless steel.

Mounting: The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter (connecting cable runs outside the mast).

Grounding: The antenna is DC grounded via a copper tube having a cross-sectional area of 22mm². The inner conductor is coupled capacitively.



Vertical Pattern



Omnidirectional Antennas GSM 900 Vertical Polarization

- High gain

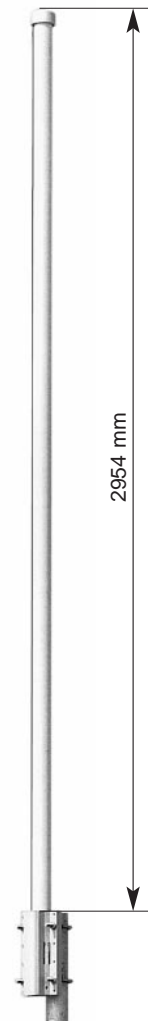
Omni 900 360° 10.5dBi 5°T

Type No.	736 349	738 664
Input	7-16 female	7-16 female
Connector position	Bottom	Top
Frequency range	870 – 960 MHz	
VSWR	< 1.5	
Gain	10.5 dBi	
Impedance	50 Ω	
Downtilt	5°	
Polarization	Vertical	
Max. power	500 Watt (at 50 °C ambient temperature)	
Weight	8 kg	
Radome diameter	51 mm	
Wind load	210 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	3316 x 148 x 112 mm	
Height	2954 mm	2856 mm

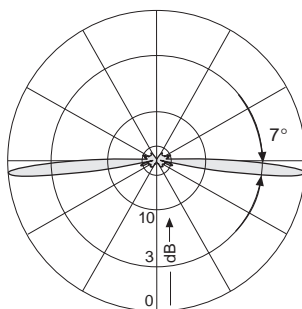
Material:
 Radiator: Copper and brass.
 Radome: Fiberglass, colour: Grey.
 Base: Weather-proof aluminum.
 Mounting kit, screws and nuts: Stainless steel.

Mounting:
 The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter (connecting cable runs outside the mast).

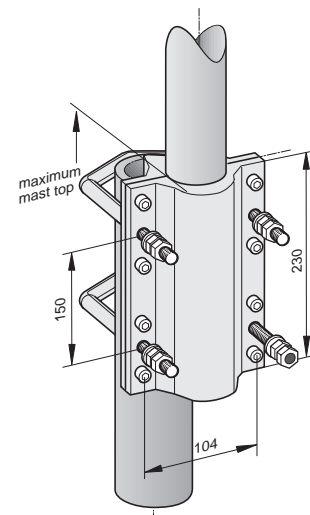
Grounding:
 The antenna is DC grounded via a copper tube having a cross-sectional area of 22mm².
 The inner conductor is coupled capacitively.



736 349



Vertical Pattern
5° electr. downtilt



Omnidirectional Antennas GSM 1800

Vertical Polarization

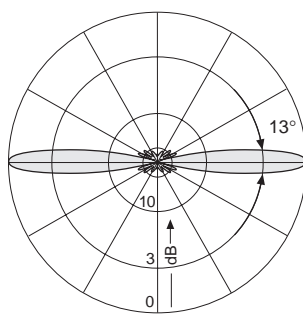
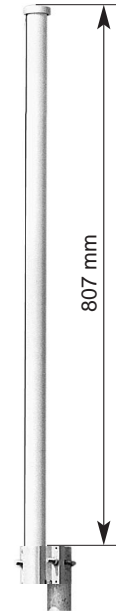
Omni 1800 360° 8dBi

Type No.	739 785
Input	7-16 female
Connector position	Bottom
Frequency range	1710 – 1880 MHz
VSWR	< 1.5
Gain	8 dBi
Impedance	50 Ω
Polarization	Vertical
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	4 kg
Windload	90 N (at 150 km/h)
Max. wind velocity	200 km/h
Radome diameter	51 mm
Packing size	986 x 148 x 112 mm
Height	807 mm

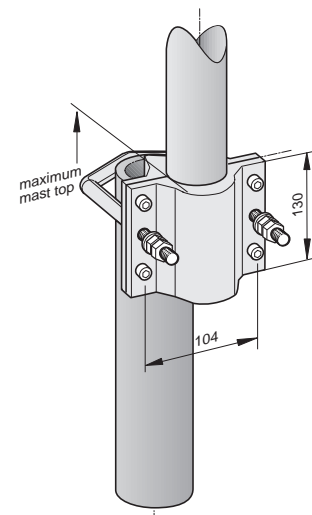
Material: Radiator: Copper and brass.
Radome: Fiberglass, colour: Grey.
Base: Weather-proof aluminum.
Mounting kit, screws and nuts: Stainless steel.

Mounting: The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter.

Grounding: The antenna is DC grounded via a copper tube having a cross-sectional area of 22 mm².
The inner conductor is coupled capacitively.



Vertical Pattern



Omnidirectional Antennas GSM 1800

Vertical Polarization

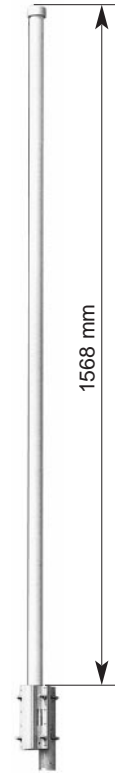
Omni 1800 360° 11dBi

Type No.	738 187	739 404
Input	7-16 female	7-16 female
Connector position	Bottom	Top
Frequency range	1710 – 1880 MHz	
VSWR	< 1.3	
Gain	11 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Max. power	200 Watt (at 50 °C ambient temperature)	
Weight	5.5 kg	
Windload	130 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Radome diameter	51 mm	
Packing size	1846 x 148 x 112 mm	
Height	1568 mm	1558 mm

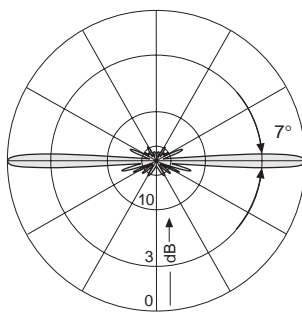
Material: Radiator: Copper and brass.
Radome: Fiberglass, colour: Grey.
Base: Weather-proof aluminum.
Mounting kit, screws and nuts: Stainless steel.

Mounting: The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter.

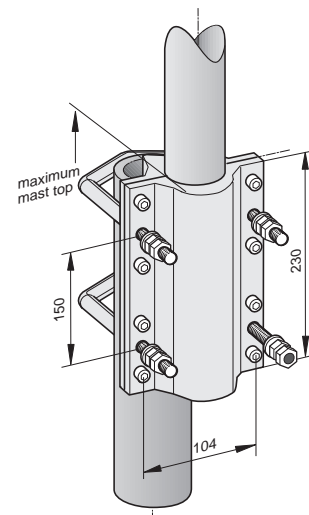
Grounding: The antenna is DC grounded via a copper tube with a cross-sectional area of 22 mm².
The inner conductor is coupled capacitively.



738 187



Vertical Pattern



Omnidirectional Antennas GSM 1800

Vertical Polarization

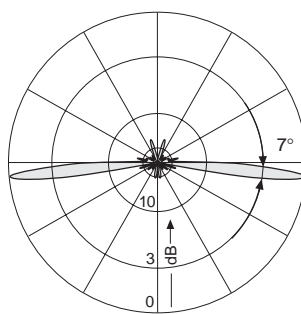
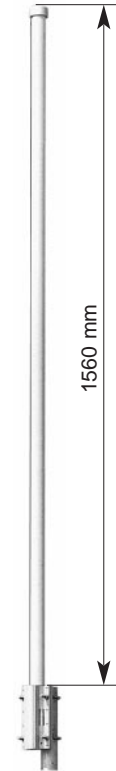
Omni 1800 360° 11dBi 6°T

Type No.	737 190
Input	7-16 female
Connector position	Bottom
Frequency range	1710 – 1880 MHz
VSWR	< 1.3
Gain	11 dBi
Impedance	50 Ω
Electr. downtilt	6°
Polarization	Vertical
Max. power	200 Watt (at 50 °C ambient temperature)
Weight	5.5 kg
Windload	130 N (at 150 km/h)
Max. wind velocity	200 km/h
Radome diameter	51 mm
Packing size	1846 x 148 x 112 mm
Height	1560 mm

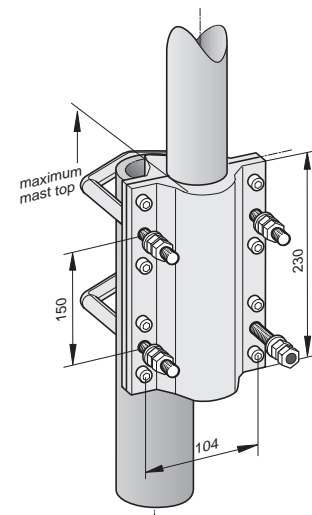
Material: Radiator: Copper and brass.
Radome: Fiberglass, colour: Grey.
Base: Weather-proof aluminum.
Mounting kit, screws and nuts: Stainless steel.

Mounting: The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter.

Grounding: The antenna is DC grounded via a copper tube with a cross-sectional area of 22 mm².
The inner conductor is coupled capacitively.



Vertical Pattern
6° downtilt



Omnidirectional Antennas PCS / DECT Vertical Polarization

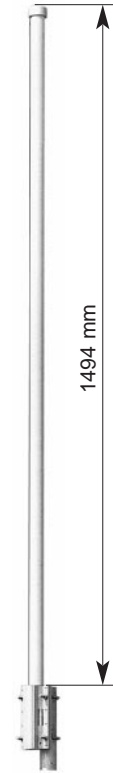
Omni 1900 360° 11dBi

Type No.	737 402	739 752
Input	7-16 female	7-16 female
Connector position	Bottom	Top
Frequency range	1850 – 1990 MHz	
VSWR	< 1.3	
Gain	11 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Max. power	200 Watt (at 50 °C ambient temperature)	
Weight	5.5 kg	
Windload	130 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Radome diameter	51 mm	
Packing size	1750 x 140 x 110 mm	
Height	1494 mm	1465 mm

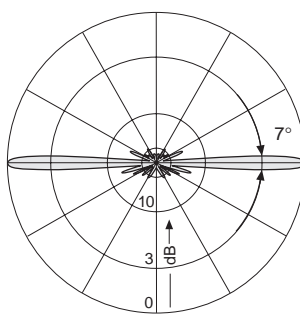
Material: Radiator: Copper and brass.
Radome: Fiberglass, colour: Grey.
Base: Weather-proof aluminum.
Mounting kit, screws and nuts: Stainless steel.

Mounting: The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter.

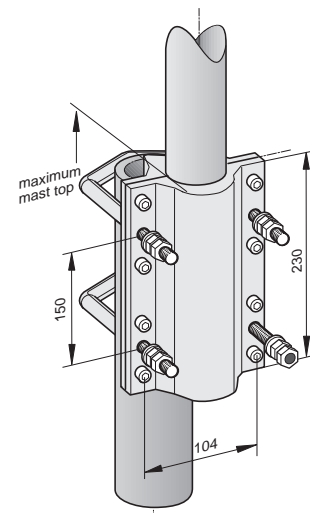
Grounding: The antenna is DC grounded via a copper tube with a cross-sectional area of 22 mm².
The inner conductor is coupled capacitively.



737 402



Vertical Pattern



Omnidirectional Gain Antenna WLL 3400 – 3600 MHz

Omni 3600 360° 10dBi 2°T

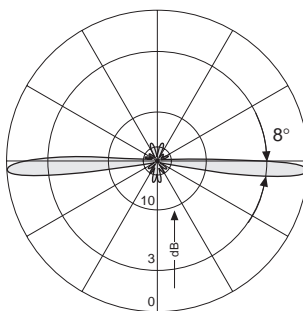
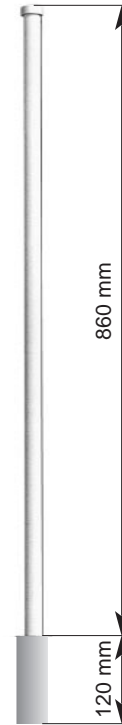
**Preliminary
Issue**

Type No.	741 697
Input	N female
Frequency range	3400 – 3600 MHz
VSWR	< 1.5
Gain	10 dBi
Impedance	50 Ω
Polarization	Vertical
Downtilt	2°
Max. power	50 Watt (at 50 °C ambient temperature)
Weight	1.5 kg
Windload	60 N (at 150 km/h)
Max. wind velocity	200 km/h
Radome diameter	30 mm
Packing size	1000 / 80 / 80 mm
Height	860 mm

Material: Radiator: Copper.
Radome: Fiberglass, colour: Grey.
Base: Weather-proof aluminum.
Mounting kit, screws and nuts: Stainless steel.

Mounting: The antenna can be attached laterally at the tip of a tubular mast of approx. 40 – 70 mm diameter (connecting cable runs outside the mast).

Grounding: The metal parts of the antenna including the mounting kit and the inner conductor are DC grounded.



Vertical Pattern
2° downtilt

These antennas have a particularly unobtrusive appearance. Apart from standard single band antennas, multi-band versions are also available.

Single-band antennas

The $\lambda/2$ omnidirectional antenna for normal ceiling mounting purposes does not need an additional groundplane. Only a single hole is required. For thicker ceilings a mounting plate is supplied. The extremely flat directional antenna is supplied with a mounting plate for attachment to a wall. The antenna is inserted into the plate and clicks in.

Multi-band antennas

The low silhouette omnidirectional and directional antennas for AMPS, GSM, PCN, DECT and PCS in combination with broadband power splitters enable compact and inexpensive indoor networks to be installed.

Indoor / Outdoor antennas

Unobtrusive omni antennas for both GSM 900 and GSM 1800 are now available especially for microcell applications. These versions are similar to our Indoor Antennas, but are suitable for outdoor operation and are fitted with an N connector.



Vertical Polarization

Single-band

Type	Type No.	Frequency range	Connector female	Page
Indoor 900 90° 7 dBi	736 624	870 – 960 MHz	N	151
Indoor 900 360° 2 dBi	737 031	870 – 960 MHz	N	152
Indoor 1800 90° 8 dBi	736 935	1710 – 1900 MHz	N	153
Indoor 1800 360° 2 dBi	736 361	1710 – 1900 MHz	N	154

Multi-band

Indoor 800/1900 90° 7 dBi	738 573	824 – 960 MHz and 1710 – 1990 MHz	N	155
Indoor 900/2000 360° 2 dBi	741 571	876 – 960 MHz and 1710 – 2170 MHz	N	156
Indoor 800/2000 360° 2 dBi	741 572	824 – 960 MHz and 1425 – 2170 MHz	N	156

Indoor / Outdoor

Omni 900 360° 2 dBi	738 450	870 – 960 MHz	N	157
Omni 1800 360° 2 dBi	738 451	1710 – 1900 MHz	N	157

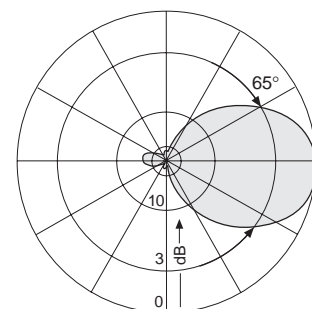
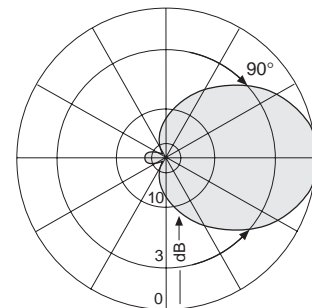
Indoor Directional Antenna GSM 900 Single-band Vertical Polarization

- Flat design

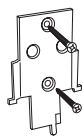
Indoor 900 90° 7dBi

Type No.	736 624
Input	Cable RG-58/CU of 1m length, grey, with N female connector.
Frequency range	870 – 960 MHz
VSWR	< 1.5
Gain	7 dBi
Impedance	50 Ω
Half-power beam width	H-plane: 90°/ E-plane: 65°
Polarization	Vertical
Max. power	50 Watt (at 50 °C ambient temperature)
Weight	500 g
Height/width/depth	205 / 155 / 32 mm

Material:	Radiator: Brass. Radome: ABS, colour: White. Reflector: Aluminum. Mounting plates: Stainless steel.
Mounting:	Two holes of 6 mm diameter in the mounting plate are provided for this purpose.
Grounding:	All metal parts as well as the inner conductor are DC grounded.

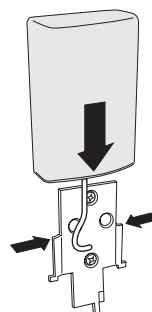


Mounting:



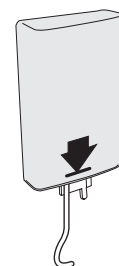
Mounting the attachment plate

Mount the attachment plate to the wall using two screws of 4 mm diameter in the position as indicated.



Aligning the antenna

Align the antenna over the attachment plate, keeping the cable in the middle of the plate.



Pulling the antenna downwards

Pull the antenna downwards until it clicks into place.

Indoor Omnidirectional Antenna GSM 900

Single-band

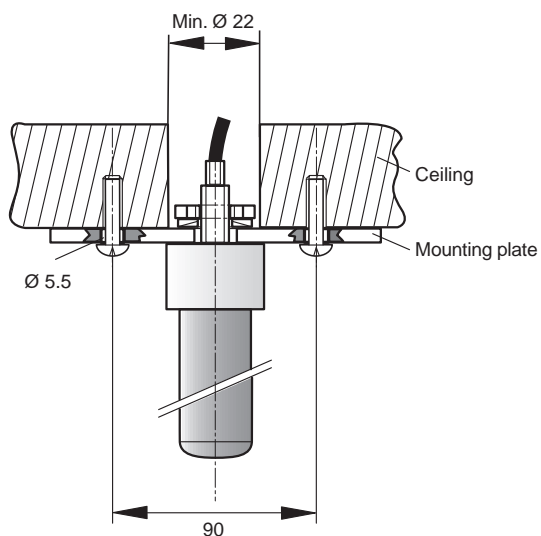
Vertical Polarization

- The antenna needs no additional groundplane.

Indoor 900 360° 2dBi

Type No.	737 031
Input	Cable RG-58/CU of 1m length, grey, N female connector.
Frequency range	870 – 960 MHz
VSWR	< 1.5
Gain	2 dBi
Impedance	50 Ω
Polarization	Vertical
Max. power	50 Watt (at 50 °C ambient temperature)
Weight	200 g
Radome diameter	20 mm
Mounting plate	115 x 25 mm
Height	201 mm

- Material:** Radiator: Brass.
Radome: Fiberglass, colour: White.
Additional mounting plate: Aluminum.
- Mounting:** Two holes of 5.5 mm diameter in the mounting plate.
- Grounding:** All metal parts inclusive the inner conductor are DC grounded.



Indoor Directional Antenna GSM 1800

Single-band

Vertical Polarization

- Flat design

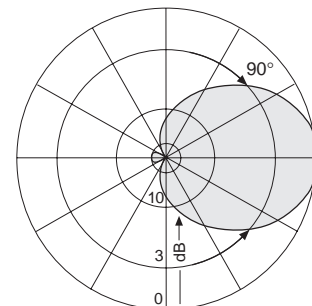
Indoor 1800 90° 8dBi

Type No.	736 935
Input	Grey cable RG 058/CU, 1 m length, with N female connector
Frequency range	1710 – 1900 MHz
VSWR	< 1.5
Gain	8 dBi
Impedance	50 Ω
Polarization	Vertical
Front-to-back ratio	> 18 dB
Half-power beam width	H-plane: 90° / E-plane: 65°
Max. power	25 Watt (at 50 °C ambient temperature)
Weight	200 g
Packing size	290 x 105 x 30 mm
Height/width/depth	159 / 94 / 23 mm

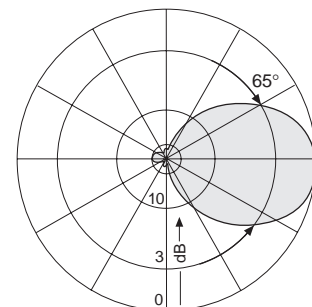
Material:
Radiator: Brass.
Radome: ABS, colour: White.
Reflector: Aluminum.
Mounting plates: Stainless steel.

Mounting:
Two holes of 6 mm diameter in the mounting plate.

Grounding:
All metal parts inclusive the inner conductor are DC grounded.

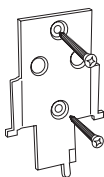


Horizontal Pattern

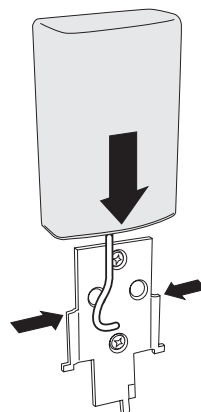


Vertical Pattern

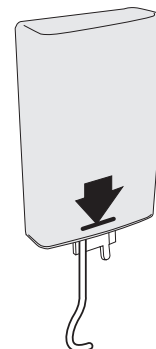
Mounting:



Mount the attachment plate to the wall using two screws of 4 mm diameter in the position as indicated.



Align the antenna over the attachment plate, keeping the cable in the middle of the plate.



Pull the antenna downwards until it clicks into place.

Indoor Omnidirectional Antenna GSM 1800

Single-band

Vertical Polarization

- The antenna needs no additional groundplane.

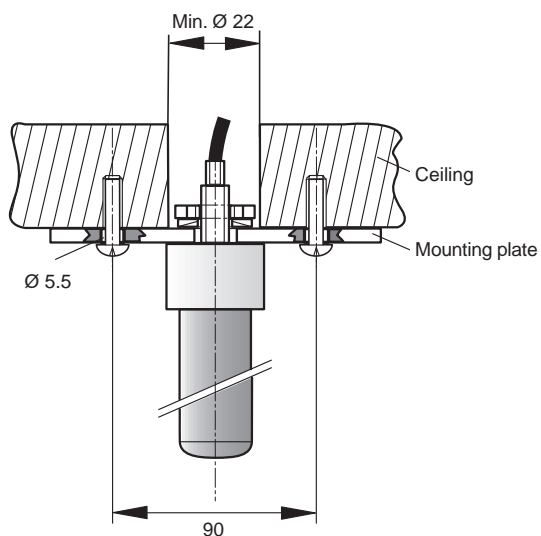
Indoor 1800 360° 2dBi

Type No.	736 361
Input	Grey cable RG 58/CU, 1 m length with N female connector
Frequency range	1710 – 1900 MHz
VSWR	< 1.5
Gain	2 dBi
Impedance	50 Ω
Polarization	Vertical
Max. power	25 Watt (at 50 °C ambient temperature)
Weight	120 g
Radome diameter	20 mm
Mounting plate	115 x 25 mm
Packing size	app. 250 x 130 x 25 mm
Height/Diameter	121 / 20 mm

Material: Radiator: Brass.
Radome: Fiberglass, colour: White.
Additional mounting plate: Aluminum.

Mounting: Two holes of 5.5 mm diameter in the mounting plate.

Grounding: All metal parts inclusive the inner conductor are DC grounded.



Indoor Directional Antenna – Multi-band AMPS / GSM / PCN / DECT / PCS Vertical Polarization

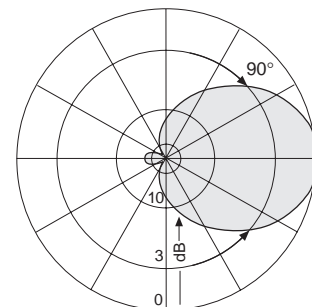
- Flat design
- The antenna can be operated in all frequency ranges simultaneously.

Indoor 800/1900 90° 7dBi

Type No.	738 573
Input	Cable RG-58/CU of 1m length, grey, with N female connector.
Frequency range	824 – 960 MHz / 1710 – 1990 MHz
VSWR	870 – 960 MHz and 1710 – 1900 MHz: < 1.6 824 – 960 MHz and 1710 – 1990 MHz: < 2.0
Gain	≈ 7 dBi
Impedance	50 Ω
Half-power beam width	Horizontal: ≈ 90°
Polarization	Vertical
Max. power	25 Watt (at 50 °C ambient temperature)
Weight	500 g
Packing size	321 x 165 x 50 mm
Height/width/depth	205 / 155 / 42 mm

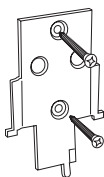


- Material:** Radiator: Brass.
Radome: ABS, colour: White.
Reflector: Aluminum.
Mounting plates: Stainless steel.
- Mounting:** Two holes of 6 mm diameter in the mounting plate.
- Grounding:** All metal parts inclusive the inner conductor are DC grounded.
- Available accessories:** Broadband power splitters and tappers (800 – 2200 MHz).

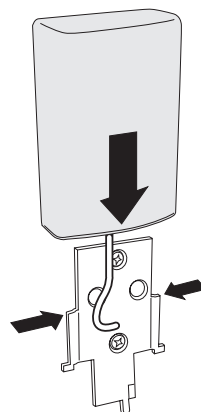


Horizontal Pattern

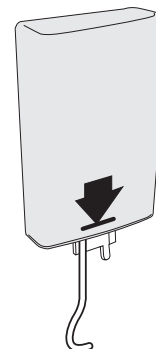
Mounting:



Mount the attachment plate to the wall using two screws of 4 mm diameter in the position as indicated.



Align the antenna over the attachment plate, keeping the cable in the middle of the plate.



Pull the antenna downwards until it clicks into place.

Indoor Omnidirectional Antennas – Multi-band AMPS / CDMA / GSM / PDC / GSM 1800 / DECT / PCS / UMTS – Vertical Polarization

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- The antenna can be operated in all frequency ranges simultaneously.
- The antennas need no additional groundplane.

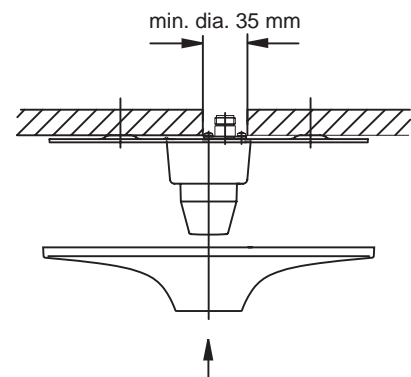
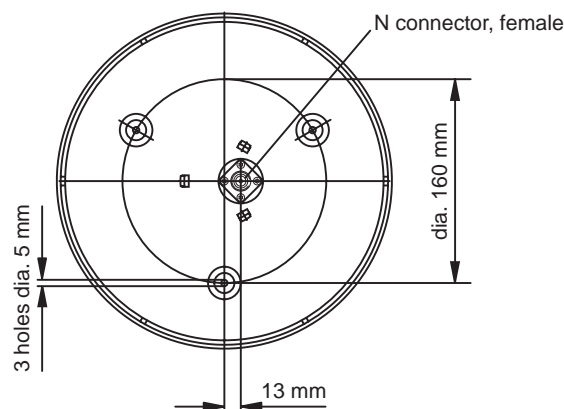
741 572: Indoor 800/2000 360° 2dBi

741 571: Indoor 900/2000 360° 2dBi

Type No.	741 572	741 571
Frequency range	824 – 960 MHz 1425 – 2170 MHz	876 – 960 MHz 1710 – 2170 MHz
VSWR	< 2.0: 824 – 960 MHz < 2.0: 1425 – 1710 MHz < 1.6: 1710 – 1990 MHz < 2.0: 1990 – 2170 MHz	< 1.8: 876 – 890 MHz < 1.6: 890 – 960 MHz < 1.6: 1710 – 1990 MHz < 2.0: 1990 – 2170 MHz
Input	1 x N female	
Gain	2 dBi	
Impedance	50 Ω	
Polarization	Vertical	
Max. power (per band)	50 Watt (at 50 °C ambient temperature)	
Weight	400 g	300 g
Diameter	260 mm	210 mm
Height	78 mm (without connector)	



- Material:** Base: Aluminum.
Protective housing: High impact polystyrol, colour: White.
Additional painting is possible.
- Mounting:** Three holes in the base enable a mounting on the ceiling. Two types of screws are supplied. For the N connector a hole in the ceiling with a diameter of 35 mm is required.
- Grounding:** All metal parts including the inner conductor are DC grounded.
- Available accessories:** Broadband power splitters and tappers (800 – 2200 MHz).



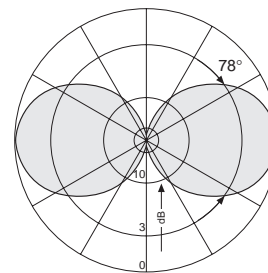
Clip the protective housing into position after the antenna has been mounted with the help of the three supplied screws.

Omnidirectional Antenna – Vertical Polarization

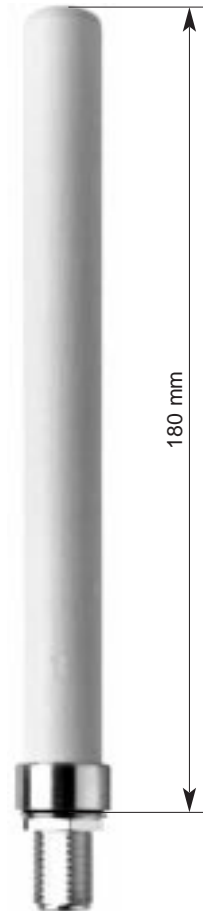
Indoor and outdoor use

Omni 900 360° 2dBi

Type No.	738 450
Input	N female
Connector position	Bottom or top
Frequency range	870 – 960 MHz
VSWR	< 1.5
Gain	2 dBi
Impedance	50 Ω
Polarization	Vertical
Max. power	100 Watt (at 50 °C ambient temperature)
Weight	200 g
Radome diameter	20 mm
Height	180 mm



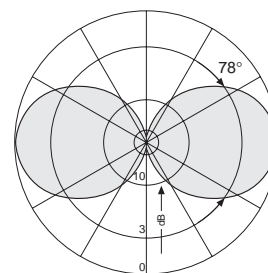
Vertical Pattern



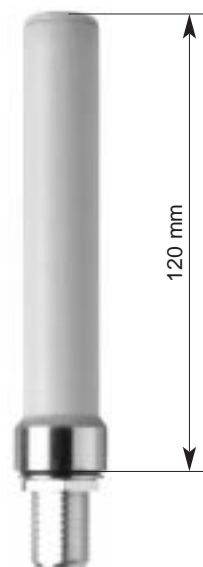
- Material:** Radiator: Brass.
Radome: Fiberglass, colour: White.
- Mounting:** One hole mounting (16 mm diameter) to surfaces of max. 10 mm thickness.
- Grounding:** All metal parts of the antenna as well as the inner conductor and the mounting kit are DC grounded.

Omni 1800 360° 2dBi

Type No.	738 451
Input	N female
Connector position	Bottom or top
Frequency range	1710 – 1900 MHz
VSWR	< 1.5
Gain	2 dBi
Impedance	50 Ω
Polarization	Vertical
Max. power	100 Watt (at 50 °C ambient temperature)
Weight	150 g
Radome diameter	20 mm
Height	120 mm



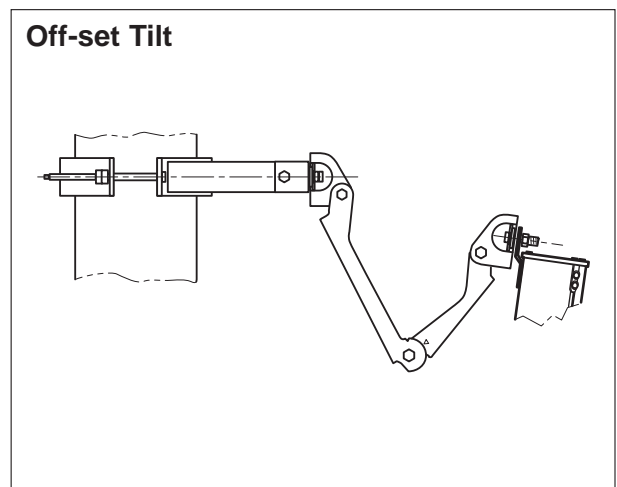
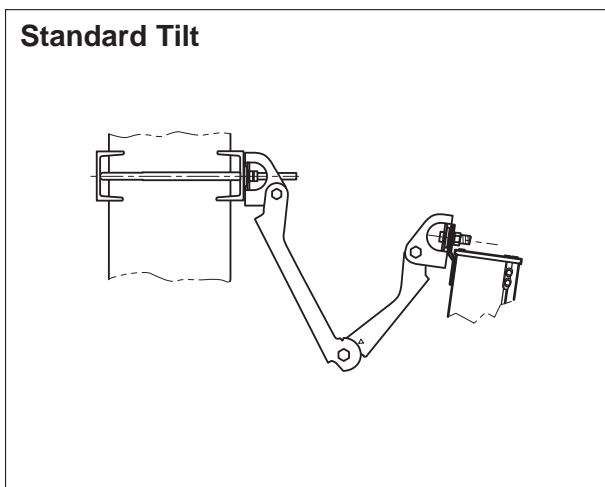
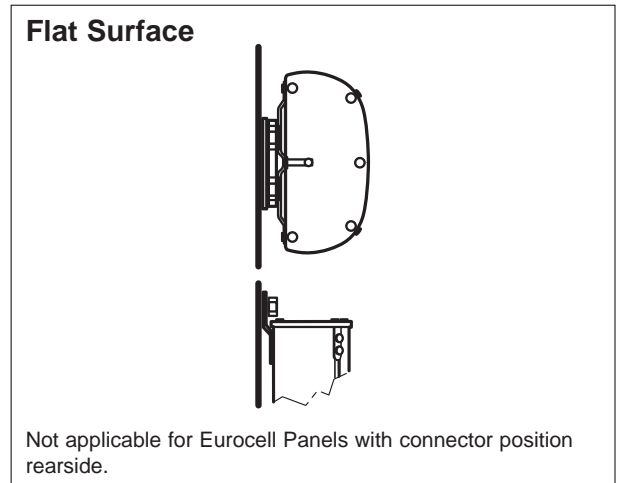
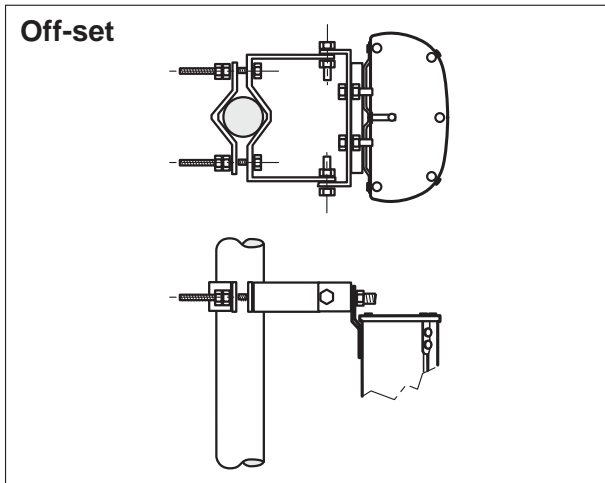
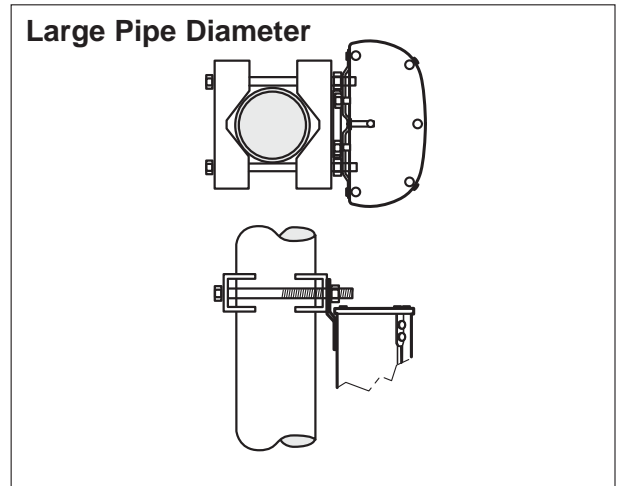
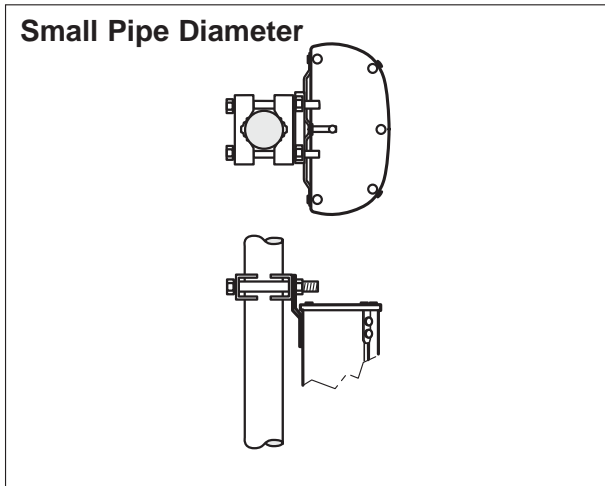
Vertical Pattern



- Material:** Radiator: Brass.
Radome: Fiberglass, colour: White.
- Mounting:** One hole mounting (16 mm diameter) to surfaces of max. 10 mm thickness.
- Grounding:** All metal parts of the antenna as well as the inner conductor and the mounting kit are DC grounded.



	Page
Mounting Configurations	171
Eurocell A-Panels / Eurocell Panels	
Dimensions	172
Clamps	173
Downtilt kits	174
F-Panels	
Dimensions	176
Detailed Connector Position	178
Clamps	179
Downtilt kits	180
Slant Compensation	182
Azimuth Adjustment Tools	183
Omnidirectional Antennas	
Side-mounting Brackets	185



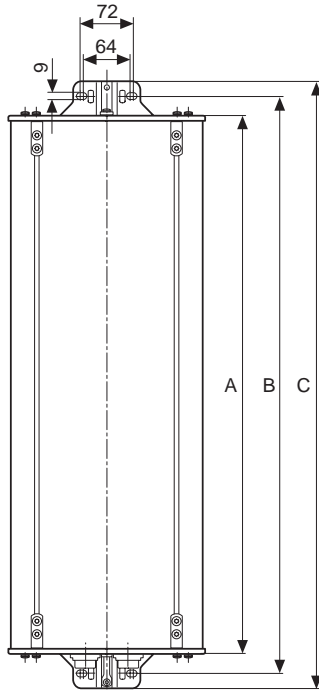
Eurocell A-Panels / Eurocell Panels

Antenna Dimensions

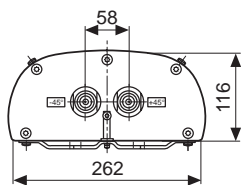
Eurocell A-Panels 65°/90° Half-power Beam Width

A	256 mm	656 mm	1296 mm	1936 mm	2580 mm
B	310 mm	710 mm	1350 mm	1990 mm	2634 mm
C	350 mm	750 mm	1390 mm	2030 mm	2674 mm

A Corresponds with the antenna height mentioned in the technical data.



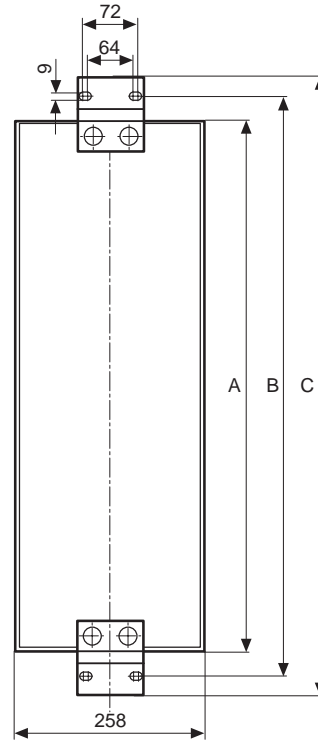
Bottom view



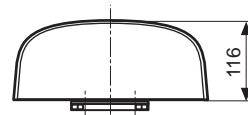
Eurocell Panels

A	264 mm	654 mm	974 mm	1294 mm	1934 mm	2574 mm
B	—	710 mm	1030 mm	1350 mm	1990 mm	2630 mm
C	—	750 mm	1070 mm	1390 mm	2030 mm	2670 mm

A Corresponds with the antenna height mentioned in the technical data.



Top view

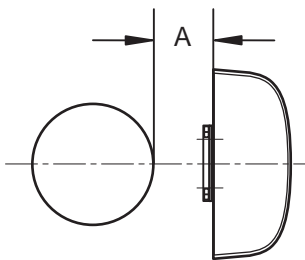
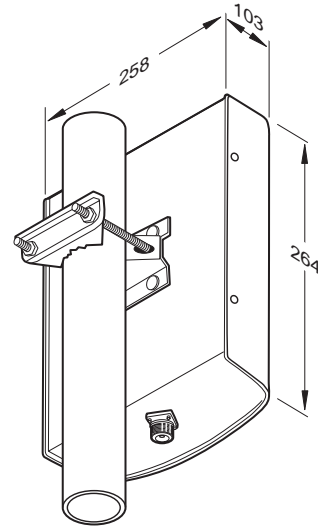
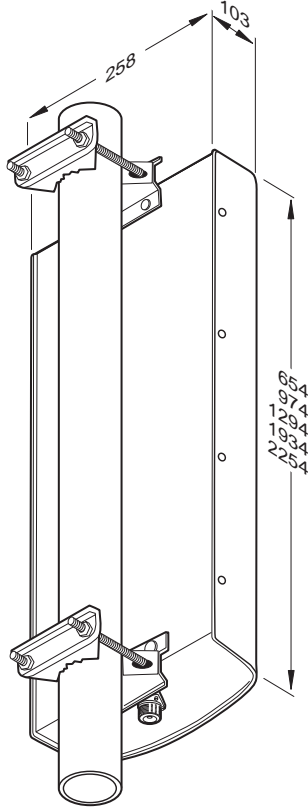
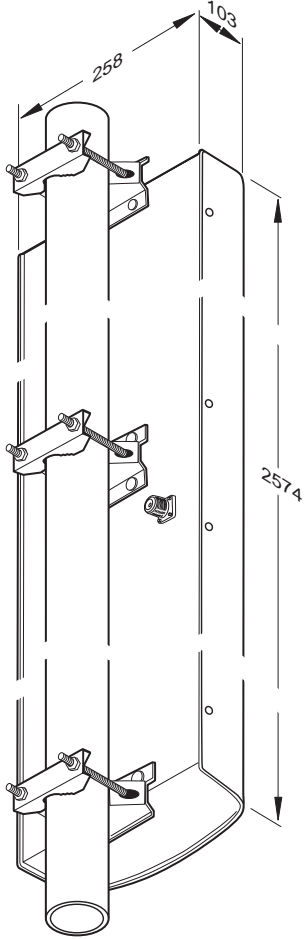


Eurocell A-Panels / Eurocell Panels Mounting Hardware Clamps

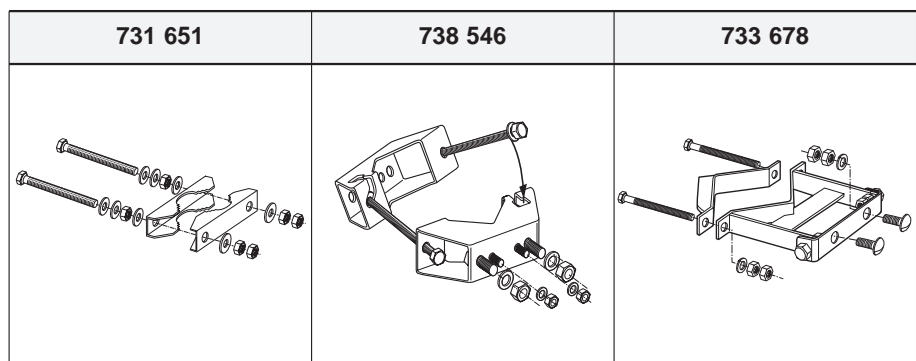
Antenna height: 2574 mm

Antenna height: 654 mm
974 mm
1294 mm
1934 mm
2254 mm

Antenna height: 264 mm



Description	Mast diameter	Type No.	Distance A mm	Weight appr.	Units per antenna
Small Pipe	28 – 64 mm	731 651	22 – 30	330 g	see sketch
Large Pipe	50 – 115 mm	738 546	19 – 24	1.0 kg	see sketch
Off-set	60 – 115 mm	733 677	117 – 124	2.0 kg	see sketch
	115 – 210 mm	733 678	146 – 160	2.6 kg	see sketch
	210 – 380 mm	733 679	148 – 168	4.0 kg	see sketch
	380 – 521 mm	733 680	150 – 175	5.3 kg	see sketch



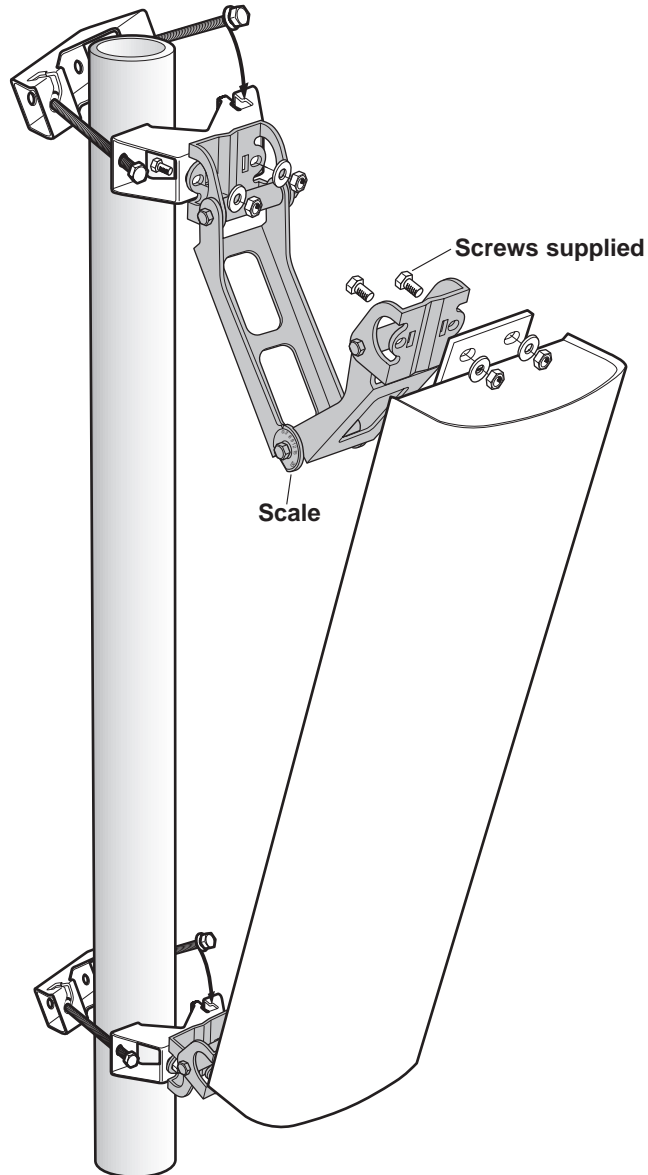
Eurocell A-Panels / Eurocell Panels

Mounting Hardware

Downtilt kit

Antenna height: 654 mm
974 mm
1294 mm
1934 mm
2254 mm

Use the downtilt kit together with the clamps (see page 173)



Downtilt angle		Downtilt kit with scale	Downtilt kit without scale*	
Antenna height	Downtilt angle	Type No.	Type No.	Weight
654 mm	0° – 30°	737 972		appr. 2.8 kg
974 mm	0° – 21°	737 973		
1294 mm	0° – 16°	737 974	737 978	
1934 mm	0° – 11°	737 975		
2254 mm	0° – 9°	–		

* Instructions to adjust the required downtilt angle are given in the datasheet or on the rearside of the antenna.

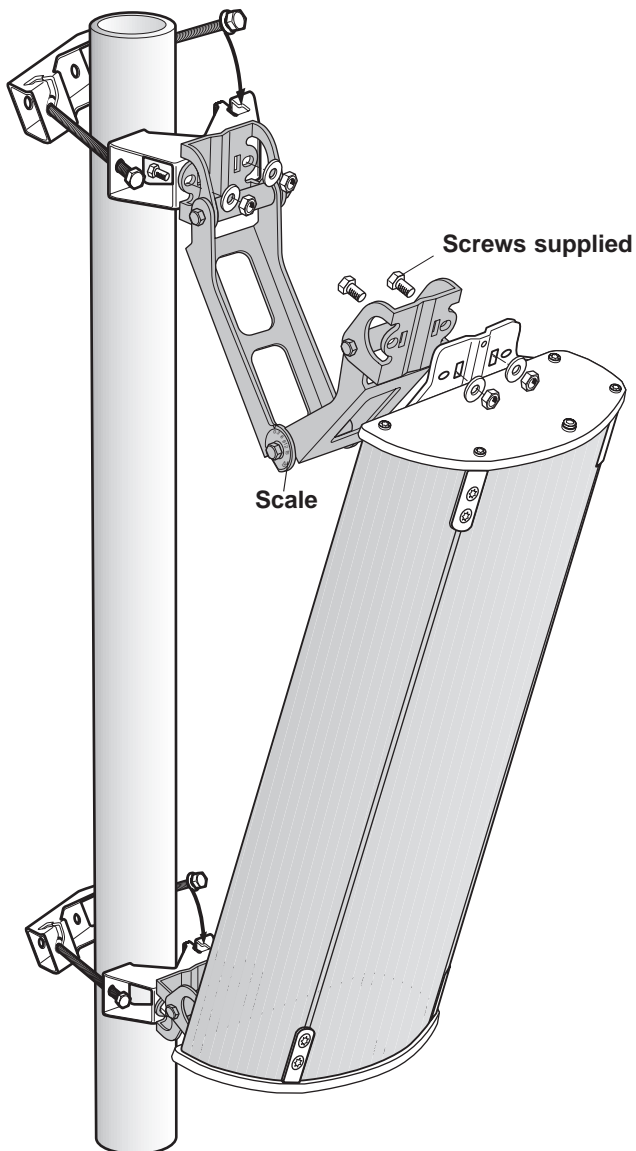
Mounting a downtilt kit enlarges the spacing between mast and antenna by 84 mm.

Eurocell A-Panels / Eurocell Panels Mounting Hardware Downtilt kits

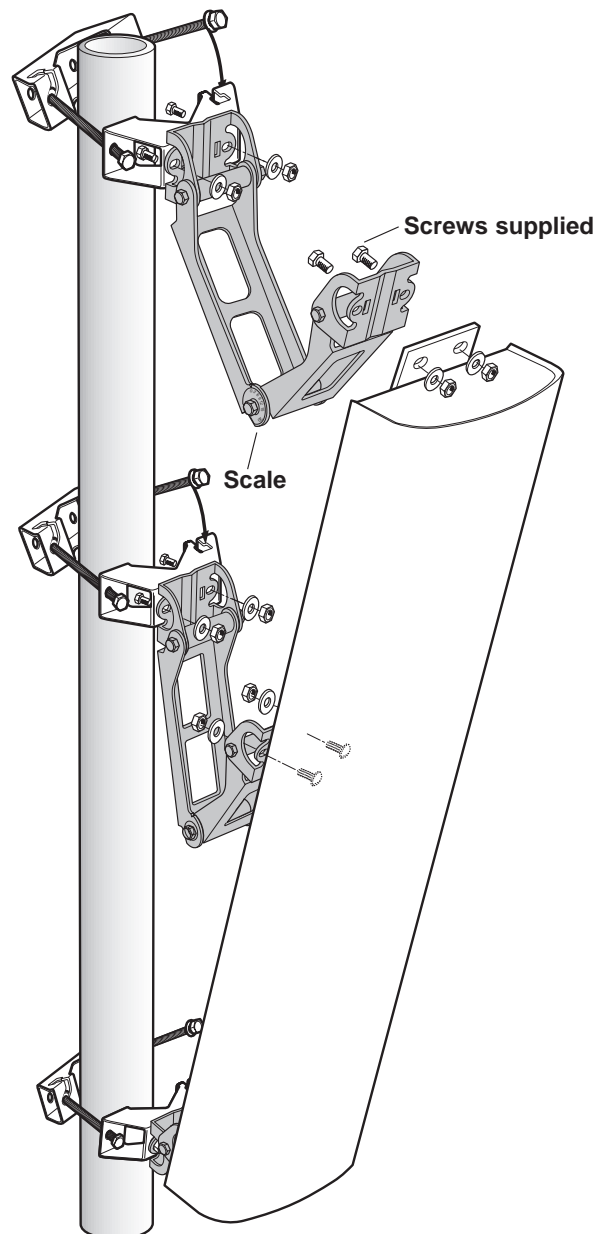
Suitable for:

Eurocell A-Panels
with an antenna height of 2580 mm

Eurocell Panels
with an antenna height of 2574 mm



Type No. 737 971
Downtilt angle: 0° – 9°



Type No. 737 976
Downtilt angle: 0° – 8°

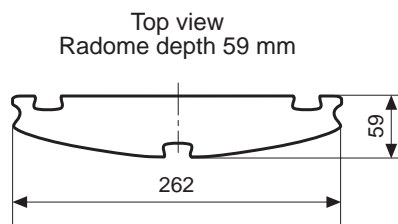
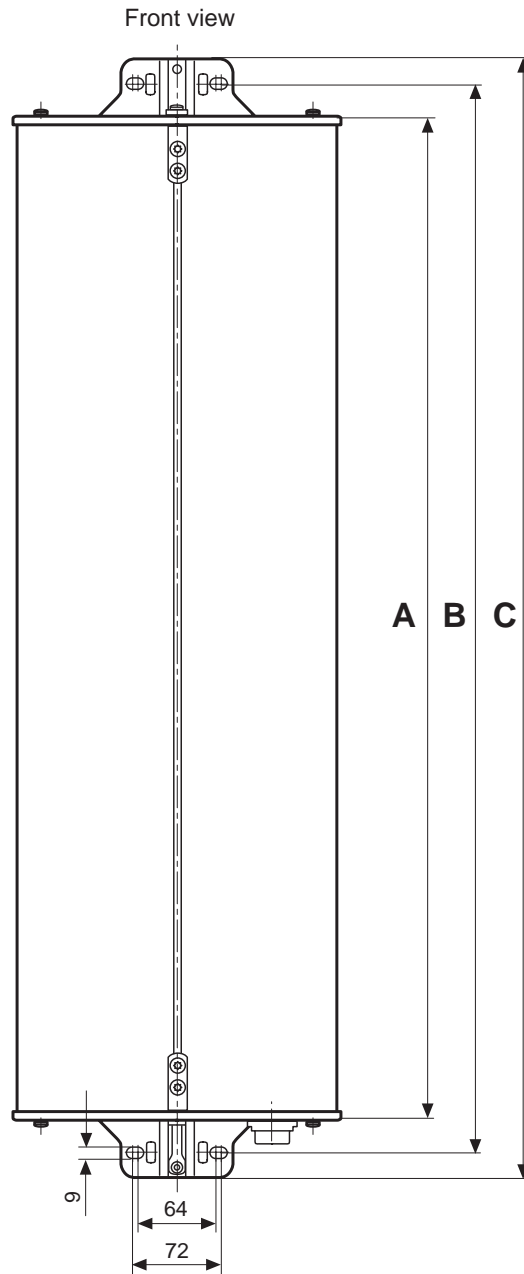
The downtilt kits should only be mounted with two clamps 738 546

Eurocell F-Panel Accessories

Dimensions of F-Panels with 33° Half-power Beam Width

Dimensions [mm]
(‘A’ corresponds to the antenna height given on the data sheet)

A	B	C
342	396	436
662	716	756
982	1036	1076
1302	1356	1396
1942	1996	2036

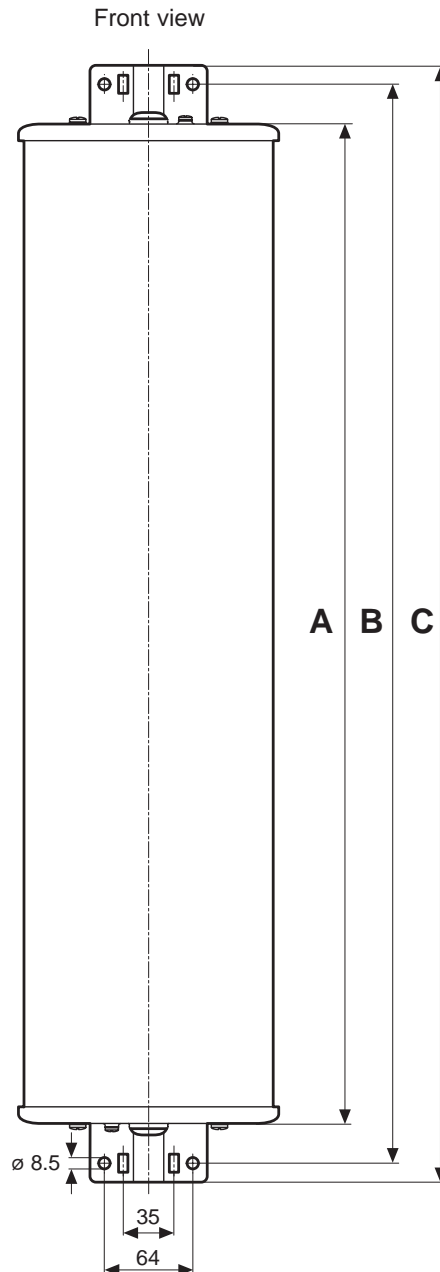


Eurocell F-Panel Accessories

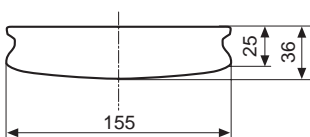
Dimensions of F-Panels with 60° – 105° / 160° Half-power Beam Width

Dimensions [mm]
(‘A’ corresponds to the antenna height given on the data sheet)

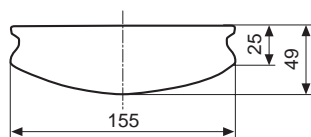
A	B	C
182	236	266
342	396	426
502	556	586
662	716	746
702	756	786
982	1036	1066
1302	1356	1386
1622	1676	1706
1942	1996	2026
2582	2636	2666



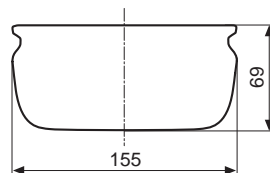
Top view
radome depth 36 mm



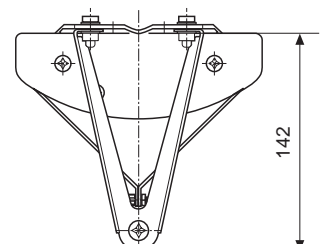
Top view
radome depth 49 mm



Top view
radome depth 69 mm



Top view
Antenna with subreflector

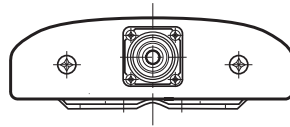


Eurocell F-Panel Accessories

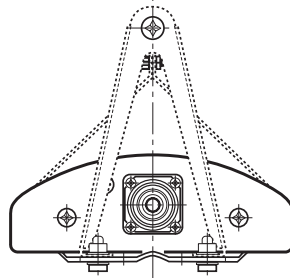
Dimensions of F-Panels

Detailed connector position

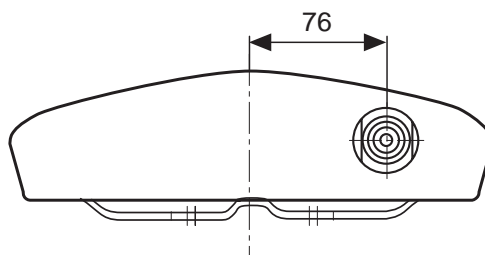
Vertical Polarization



60° – 65° Half-power Beam Width

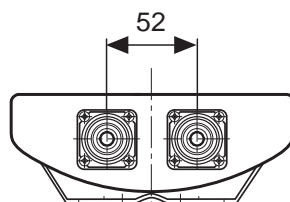


90° – 160° Half-power Beam Width

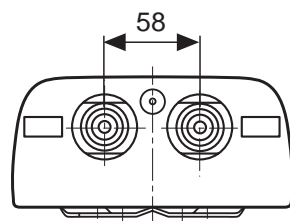


33° Half-power Beam Width

+45°/-45° Polarization



65° Half-power Beam Width



90° Half-power Beam Width

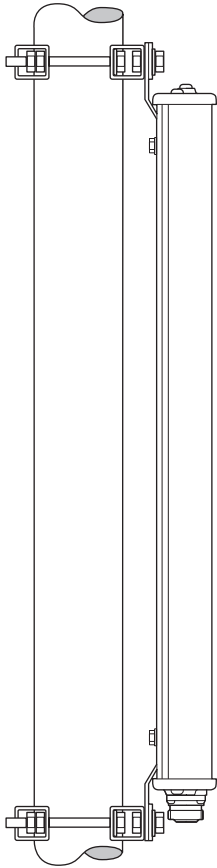
Eurocell F-Panel Accessories

Clamps for F-Panels with 33° / 60° – 160° Half-power Beam Width

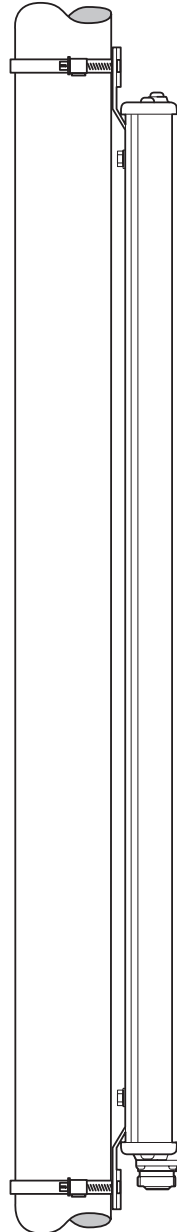
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33° HPBW



60°–160° HPBW



33° Half-power Beam Width

Type no.	Mast diameter	Weight	Units per antenna
738 546	50 – 115 mm	appr. 1 kg	2

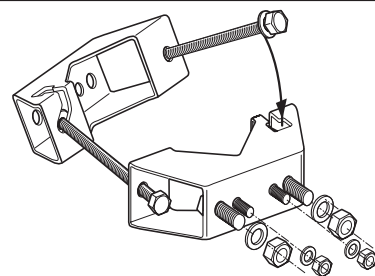
60°–160° Half-power Beam Width

Type no.	Mast diameter	Antenna height	Weight appr.	Units per antenna
734 360	34 – 60 mm	182 ... 1942 mm	60 g	1
734 361	60 – 80 mm	182 ... 1942 mm	70 g	1
734 362	80 – 100 mm	182 ... 1942 mm	80 g	1
734 363	100 – 120 mm	182 ... 1942 mm	90 g	1
734 364	120 – 140 mm	182 ... 1942 mm	110 g	1
734 365	45 – 125 mm	182 ... 1942 mm	80 g	1
738 546	50 – 115 mm	182 ... 2582 mm	1 kg	2

Type no. 734 362



Type no. 738 546

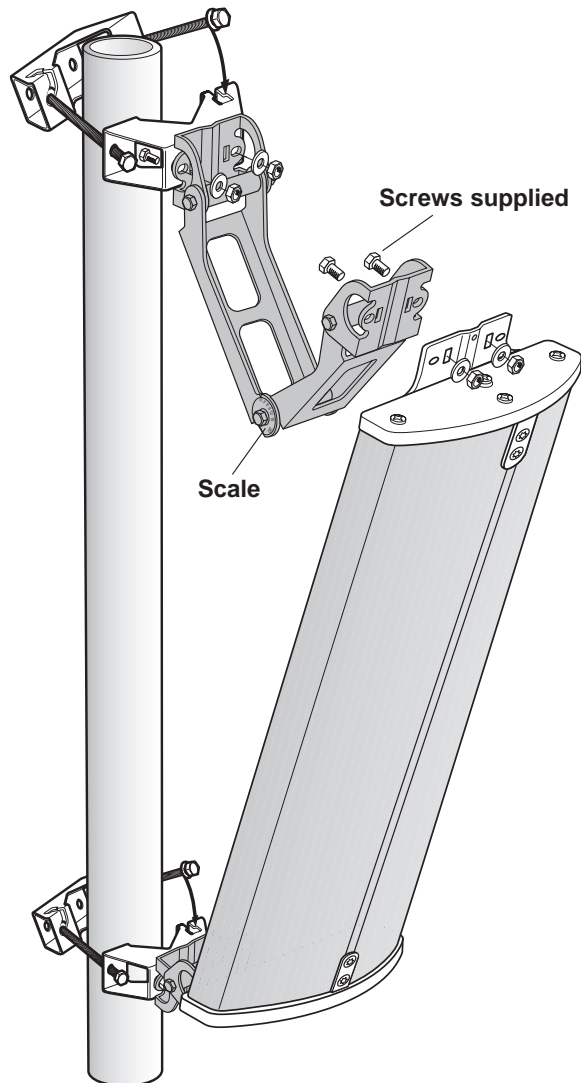


Eurocell F-Panel Accessories

Downtilt Kit for F-Panels with 33° – 160 °Half-power Beam Width

Antenna height: 342 mm
662 mm
982 mm
1302 mm
1622 mm
1942 mm
2582 mm

Use the downtilt kit together with
2 clamps 738 546 (see page 179).



Antenna height	Downtilt angle	Downtilt kit with scale	Downtilt kit without scale*	Weight
		Type No.	Type No.	
342 mm	0° – 54°	–		appr. 2.8 kg
662 mm	0° – 30°	737 972		
982 mm	0° – 21°	737 973		
1302 mm	0° – 16°	737 974	737 978	
1622 mm	0° – 13°	–		
1942 mm	0° – 11°	737 975		
2582 mm	0° – 8°	737 971		

* Instructions to adjust the required downtilt angle are given in the datasheet or on the rearside of the antenna.

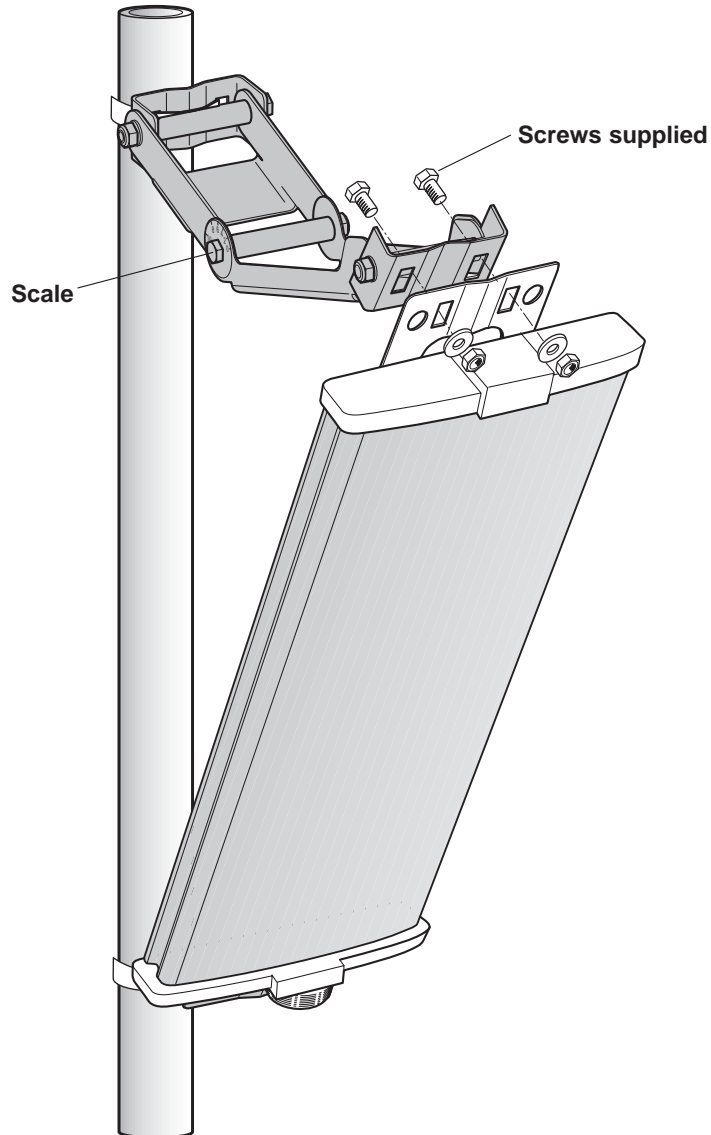
Mounting a downtilt kit enlarges the spacing between mast and antenna by 84 mm.

Eurocell F-Panel Accessories

Downtilt Kit for F-Panels with 60° – 160° Half-power Beam Width

Antenna height: 342 mm
502 mm
662 mm
982 mm
1302 mm

Use the downtilt kit together
with the clamps (see page 179).



Antenna height	Downtilt angle	Downtilt kit with scale	Downtilt kit without scale*	Weight
		Type No.	Type No.	
342 mm	0° – 40°	–		appr. 1.0 kg
502 mm	0° – 25°	732 322		
662 mm	0° – 20°	732 321		
982 mm	0° – 14°	732 318	732 327	
1302 mm	0° – 10°	732 317		

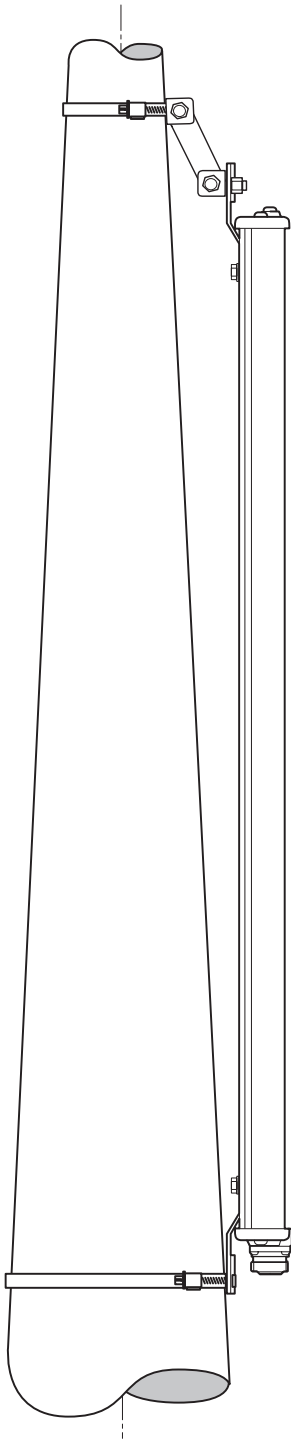
* Instructions to adjust the required downtilt angle are given in the datasheet or on the rearside of the antenna.

Mounting a downtilt kit enlarges the spacing between mast and antenna by 42 mm.

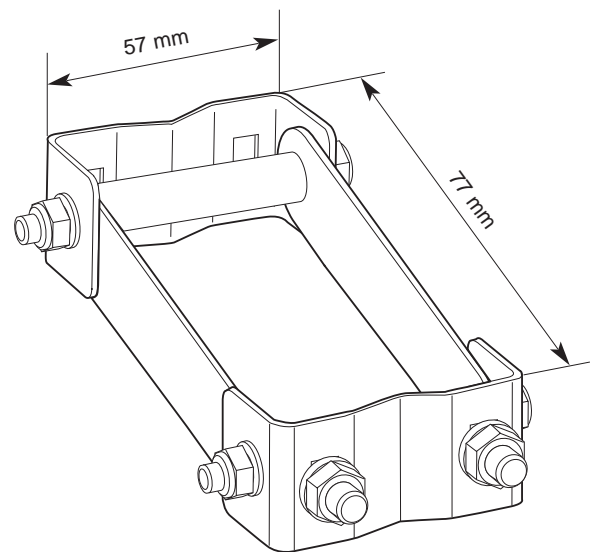
Eurocell F-Panel Accessories

Slant Compensation Kit for F-Panels with 60° – 160° Half-power Beam Width

Type no. 732 319



Use the slant compensation kit
type no. 732 319 together with the
clamps (see page 179).



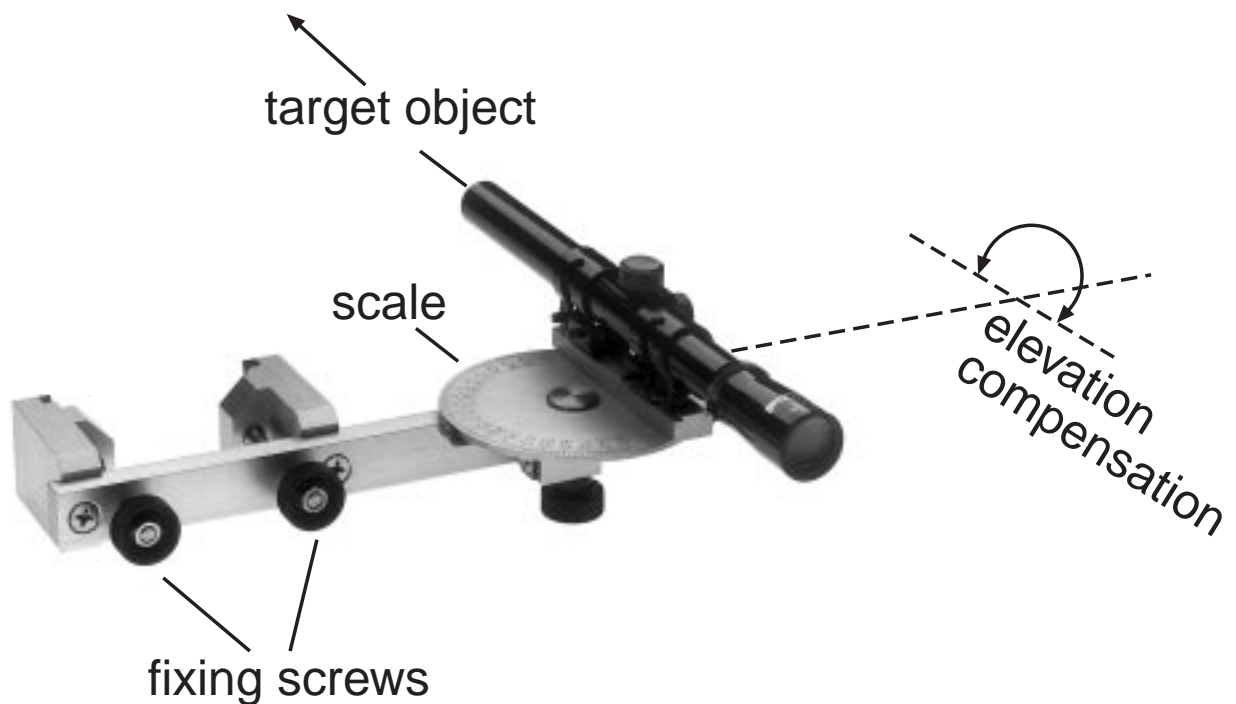
Weight: appr. 200 g

Eurocell F-Panel Accessories

Azimuth Adjustment Tool for F-Panels with 60° – 160° Half-power Beam Width

Type no. 735 700

Precise azimuth angle adjustment for mast mounted antennas can easily be achieved by using the azimuth adjustment tool.



Instruction:

- Use a map to work out the angle between the designed antenna azimuth direction and target object (church, building, mountain peak)
- Set this angle on the scale of the adjustment tool
- Push the adjustment tool onto the antenna fixture and tighten the fixing screws
- Use the telescope to aim at the target object, if necessary, use elevation compensation
- Then rotate the antenna until the target object appears in the telescope objective.

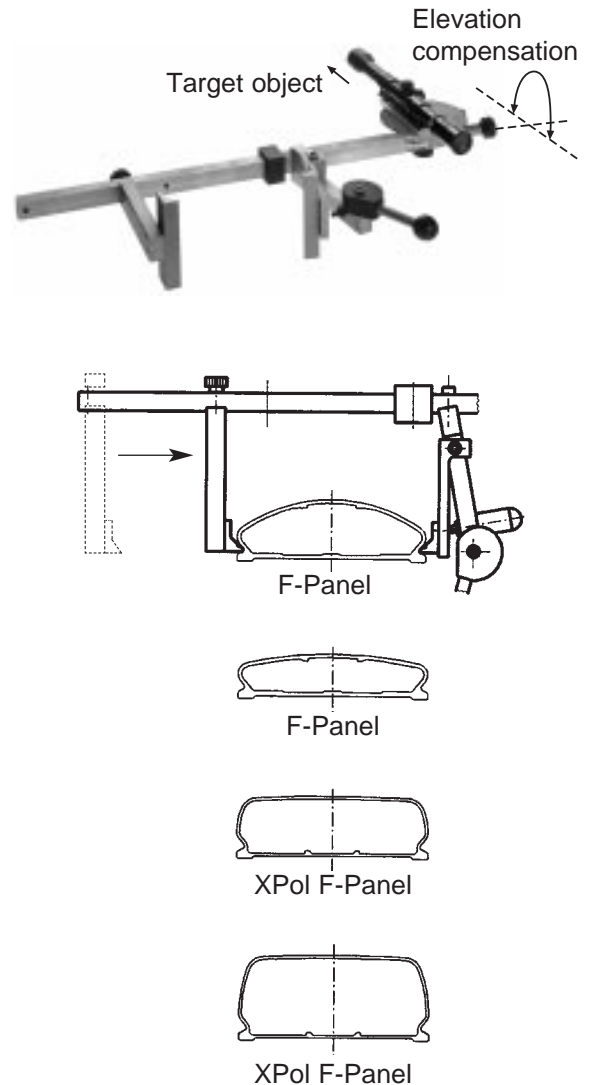
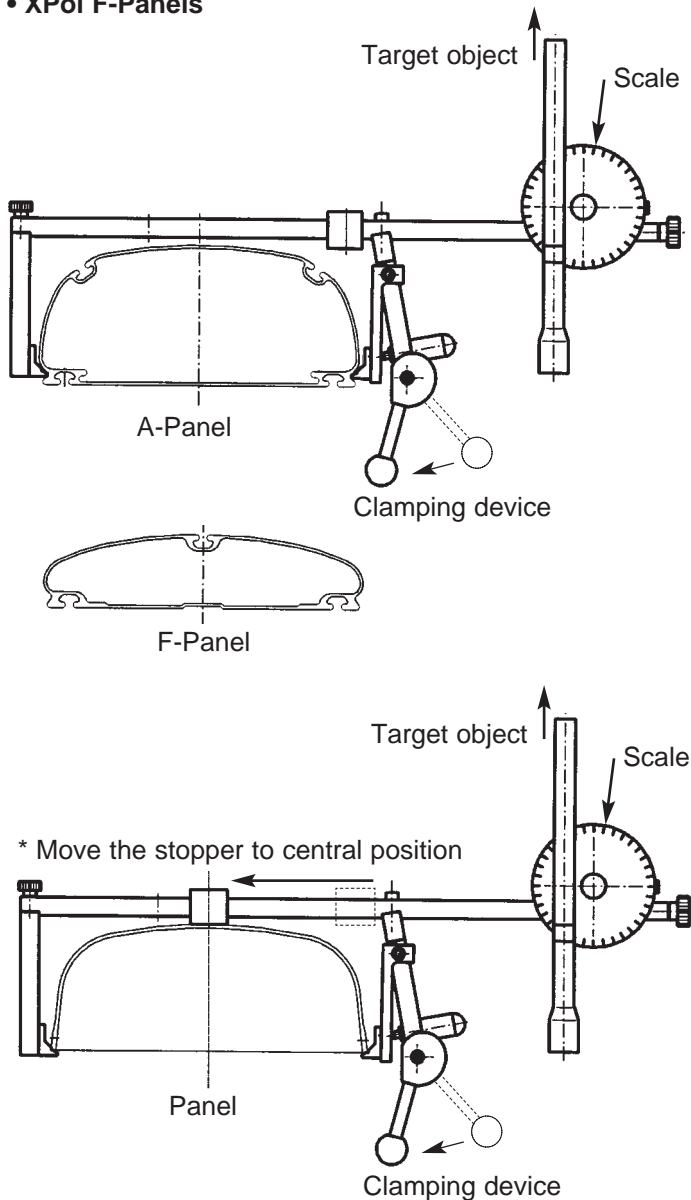
Eurocell A-Panel / Eurocell Panel / Eurocell F-Panel Accessories Azimuth Adjustment Tool

Type no. 738 440

Precise azimuth adjustment for mast mounted antennas can easily be achieved by using the azimuth adjustment tool.

This tool is suitable to all types of Eurocell Panels

- Panels
- A-Panels
- F-Panels
- XPol F-Panels



Instruction:

- Use a map to work out the angle between the designed antenna azimuth and target (church, building, mountain peak).
- Set this angle on the scale of the adjustment tool.
- Place the adjustment tool onto the antenna and tighten the clamping device.
- Use the telescope to aim at the target object, if necessary, use elevation compensation.
- Then rotate the antenna until the target object appears in the telescope.

* Observe the position of the stopper when fitting the azimuth adjustment tool.

Omnidirectional Antennas Side-mounting Brackets GSM 900

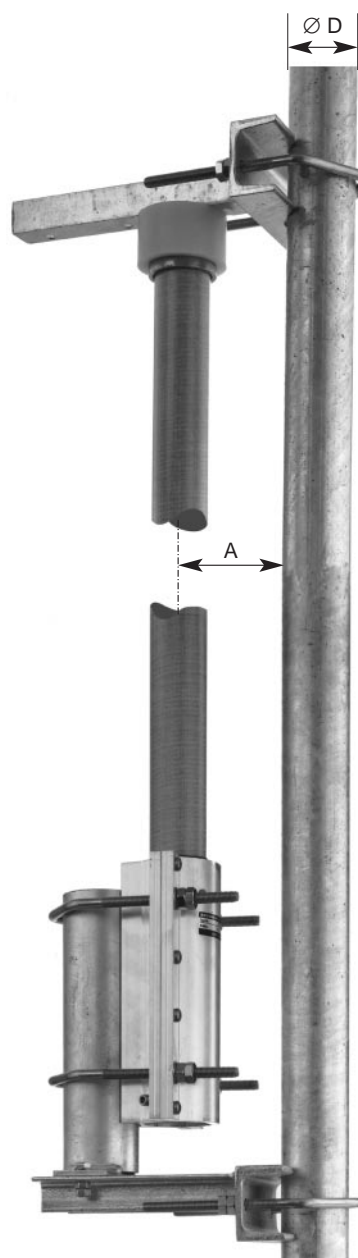
For mast diameters of 40 – 105 mm

Type No.	K 61 33 5	K 61 33 6	737 398
Bracket	at the bottom only	at both the top and the bottom	at both the top and the bottom
Fits for antenna type no.	K 75 11 6 .. K 75 15 6 ..	738 779	736 347 736 348 736 349 736 350 736 351 738 664

Side mounting is possible for three fixed distances between the tubular mast and the antenna:

- 100 mm = 0.3 λ
- 160 mm = 0.5 λ
- 240 mm = 0.75 λ

Pipe D	Horizontal Radiation Pattern	Spacing A Curve	Additional gain to the nominal value of the antenna gain
40 mm		100 mm	2 dB
		160 mm	3 dB
		240 mm	2 dB
100 mm		100 mm	2.5 dB
		160 mm	3.5 dB
		240 mm	2.5 dB



737 398

Eurocell panels mounted on a church.



Omnidirectional antennas mounted on the roof of a municipal building.



Eurocell F-Panels mounted on the wall of an industrial building.



Eurocell F-Panels with brick-patterned paintwork mounted on a building in Sweden.

