880-960 MHz Single Band X-Urban Antenna

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880-960 MHz

Part Number: 7218.04

Horizontal Beamwidth: 65˚
Gain: 17.5 dBi

Electrical Downtilt: 4˚
Connector Type: 7/16

The Powerwave® X-Urban Single Band Antenna shares its characteristically slim design with the Urban antenna. Its outstanding performance in the field derives from electrical parameters, including VSWR (Voltage Standing Wave Ratio), isolation beam squint and tracking. With this design, particular attention has been paid to minimizing intermodulation products, in order to reduce interference, thus substantially enhancing system benefits.

The Powerwave® polarization diversity systems use one antenna with two orthogonal polarizations slanted at ±45˚ to provide the independently fading signals needed for achieving top-quality coverage. As a result of thorough, in-depth research and testing, Powerwave® has produced a variety of designs that ensure the isolation, cross polarization discrimination and orthogonality between inputs needed to achieve the highest possible diversity gain, hence the most efficient system performance. The result; much fewer dropped calls, and substantially improved call quality.

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Key Benefits:

- Market Leading Performance
- Dual Polarization
- Slim Design
- Light Weight
- Reliable Lasting Service

ANTENNA SYSTEMS

BASE STATION SYSTEMS

COVERAGE SYSTEMS

880-960 MHz

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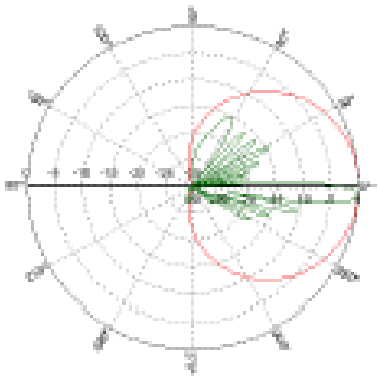
Electrical Specifications

Frequency Range (MHz)	880 – 960
Polarization	Linear slanted +/-45
Gain, co-polar (dBi)	17.5
Nominal Impedance (Ohm)	50
VSWR, TX	<1.3:1
VSWR, RX	<1.4:1
Isolation between inputs (dB)	>30
Horizontal –3 dB beamwidth	65° +/-3
Horizontal tracking (dB)	<1
Cross-polar discrimination (dB)	>18
Vertical –3 dB beamwidth	6.5°
Electrical downtilt	4°
Vertical beam squint	<0.5°
Front-to-back ratio, total power (dB)	>20
Front-to-back ratio, co-polar (dB)	>24
First upper sidelobe suppression (dB)	>17
First Null below horizon (dB)	N/A
Maximum input power (W)	500
IM, 3rd order, 2 Tx@43dBm (dBc)	<-150

All specifications are subject to change without notice.
Contact your Powerwave representative for complete performance data.



Mechanical Specifications

Connector type	7/16
Connector position	Bottom
Dimensions, HxWxD	2580x256x50mm (8’6”x10”x2”)
Weight including bracket	14kg (31 lbs)
Wind load, frontal, 42 m/s Cd=1 (N)	750
Survival wind speed (m/s)	55
Lightning protection	DC grounded
Radome material	PVC
Radome color	Light gray*
Packing size	2690x308x121mm (8’10”x1’x5”)
Shipping weight	18kg (39.7 lbs)

Comments

Gain is typical within frequency band.
Beamwidths are defined using total power.
Horizontal tracking is defined within +/-60° from boresight.
Cross-polar discrimination is defined within –3dB beamwidth.
Front-to-back ratio is defined within 20° from the backwards direction in any plane.
Sidelobe suppression and null fill is relative to peak of main beam.
Maximum input power is total input power, divided arbitrarily between inputs.
Radiation patters are typical for the antenna
Shipping weight including tilt brackets. Antenna is delivered with brackets premounted
*Radome color is NCS 2502-B (RAL 7035).

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Powerwave technologies

COVERAGE AND CAPACITY | TECHNOLOGY LEADERSHIP | GLOBAL PARTNER | INTEGRATED SOLUTIONS | QUALITY AND RELIABILITY

PN7218.04