2 GHz, 13 dBi, H/V Dual Polarization Omni Antenna with Integrated Large Radio Case

KPPA-2GHZ-DPOMA-WC-3

Features

- 2.3 - 2.6 GHz, 13 dBi gain with Horizontal/Vertical Polarization
- 360 degree of coverage with no null zones
- Powder-coated metal case protects your RF connections, minimizing need for tape
- Out performs our competitors by 1 to 3 dBi
- Will not require a RF shield if using a UBNT radio.
- Functional easy-to-install mounting bracket
- 2 x 2 MIMO – Multiple Input and Multiple-Output
- Cost effective all-in-one Omni Antenna solution with radio casing attached
- 2 x N-type Female Right Angle to RP-SMA Female Straight LMR200 cables of 6” length

Applications

- Wireless MIMO LAN systems & IEEE 802.11b/g/n/ax
- Mobile WiMAX Wireless Internet Provider “cell” sites
- Point-to-multipoint (PtMP) requiring 360 degree of coverage
- Cost-sensitive low-density deployments

Description

Includes powder-coated metal case that provides additional environmental protection and RF shielding for popular access point 2x2 MIMO radios in the 2GHz band
UV-resistant radome, anodized aluminium base, and heavy-duty hardware for all-weather operation
IEEE 802.11a/n applications for Hospitality, Industrial, Municipality, MTU/MD, WiMax, WISP, WiFi, Communication

Configuration

Design	Omni
Application Band	2.4Ghz
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical/Horizontal
Connector Type	N Female
Number of Ports	2
Lightning Protection	DC Ground
Housing Material and Plating	Powder Coat

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2.3		2.6	GHz
Input VSWR			1.8:1	
Impedance		50		Ohms
Gain		13		dBi
Electrical Downtilt		1		Degrees
Cross Polarization Ratio	20			dB
Horizontal (Azimuth) HPBW		Omnidirectional		
Vertical (Elevation) HPBW		7		Degrees
Input Power			50	Watts

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications:
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Electrical Specification Notes:
Max input power is 50W per port.

Mechanical Specifications

Radome Material	PVC
Housing Plating/Color	Powder Coat
Size	
Length	58 in [147.32 cm]
Width	4 in [101.6 mm]
Height	6 in [152.4 mm]
Mounting Mast Diameter	1.6 to 2.4 in [40.64 to 60.96 mm]
Weight	10 lbs [4.54 kg]

Mechanical Specification Notes:
Radome material is UV resistant PVC
Case will fit Large Cambium or Ubiquiti Radio

Environmental Specifications

Temperature	
Operating Range	-40 to +65 deg C
Wind Survivability	130 MPH [209.21 KPH]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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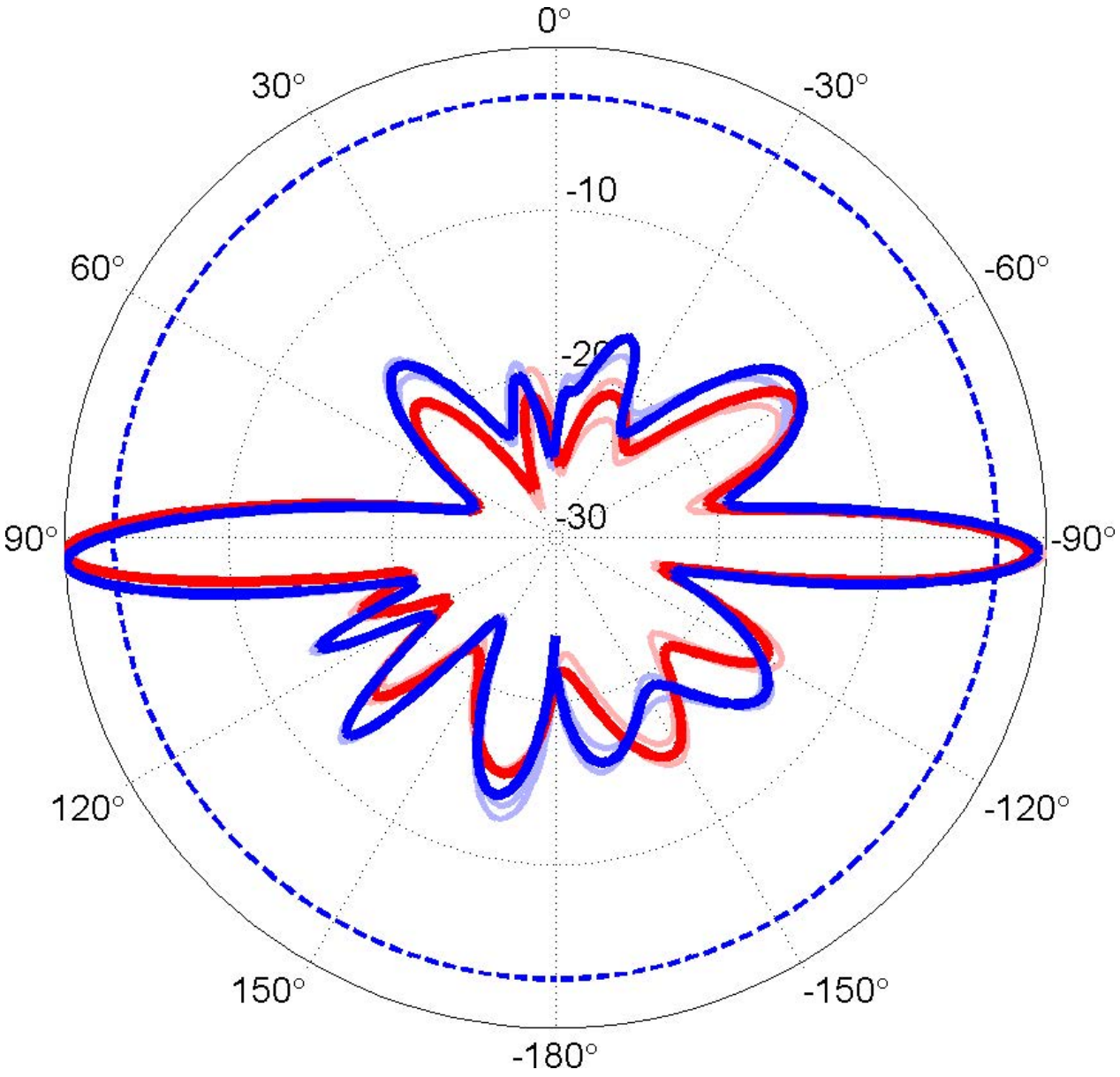
Typical Radiation Pattern



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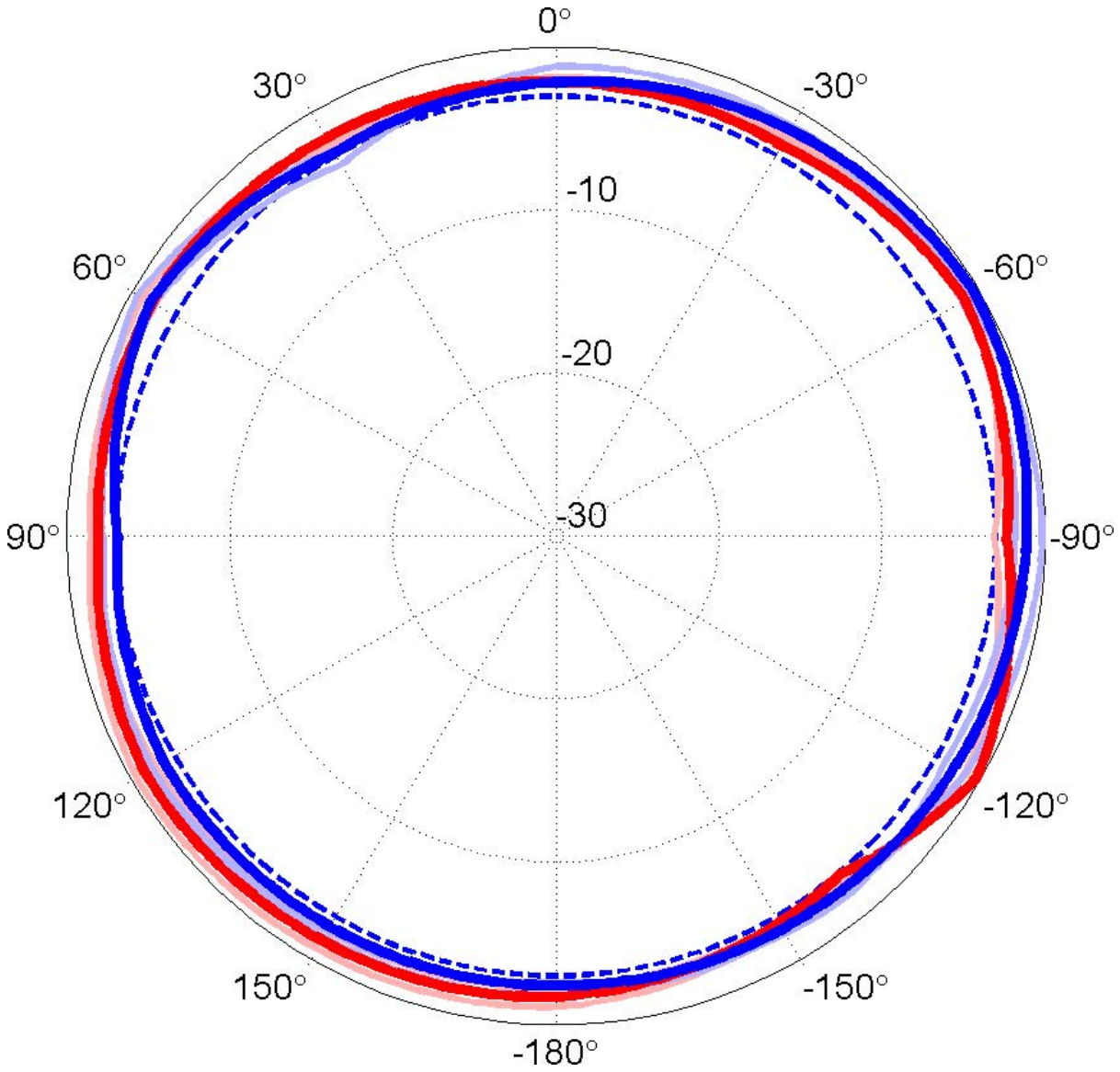

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Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

Front to Back Ratio @ 180°±30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

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KPPA-2GHZ-DPOMA-WC-3 CAD Drawing