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Dual-sector antenna KPPA-5HV5HV-65SA

5 GHz band, V/H polarisation

The new generation of dual-antennas from KP combine two complete radiating systems within a single rugged radome. This arrangement allows complete coverage while reducing tower rental and installation costs.

Features:

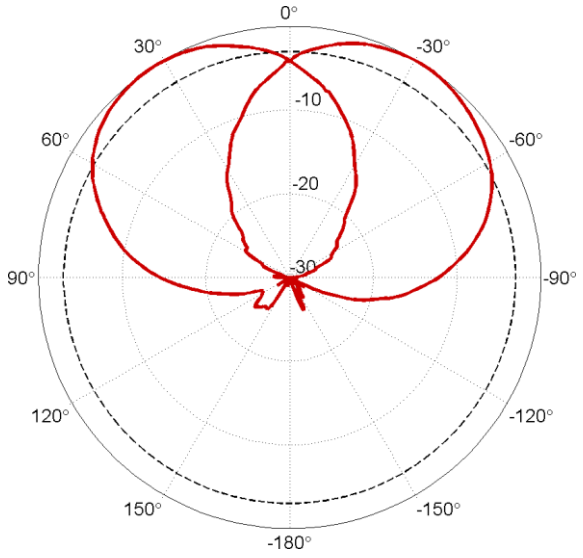
- Two 65° sector antennas in a single radome, mounted 60° apart
- High gain of 16.5 dBi per port, four ports
- Clean patterns for frequency re-use on the same tower
- Supplied with KP's over-designed universal adjustable bracket, in hot-dip galvanised steel, with wide U-bolts for mounting on poles or tower legs up to 4".
- Mounting space for two ePMP radios on back

Advantages:

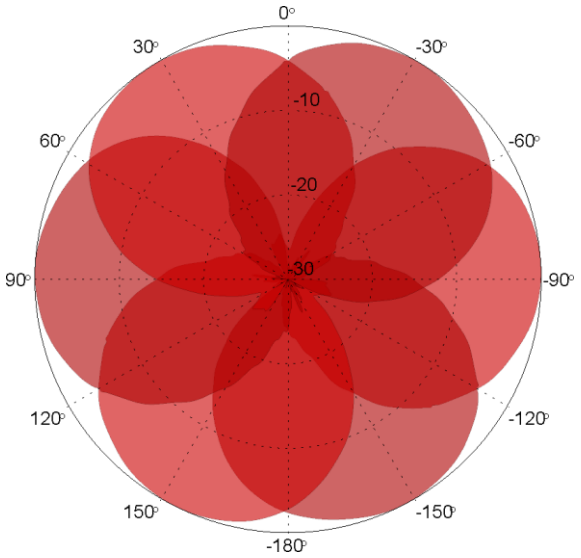
- Reduced inches on tower, only 28" tall
- Single mounting point means half the tower rental
- Lower wind resistance than two equivalent sectors
- Faster installation
- Greater coverage than a single sector

Overview pattern diagrams:

A single KPPA-5HV5HV-65SA has two dual-pol ports, each with a radiation pattern offset from the centre.



Three KPPA-5HV5HV-65SA mounted around a tower give complete coverage, at full sector gain.



Also available:

- 2 GHz and 3 GHz single-band dual sectors in a single radome
- 2/3, 2/5. 3/5 GHz dual-band sectors in a single radome
- 2, 3 and 5 GHz single-band quad-pol sector antennas

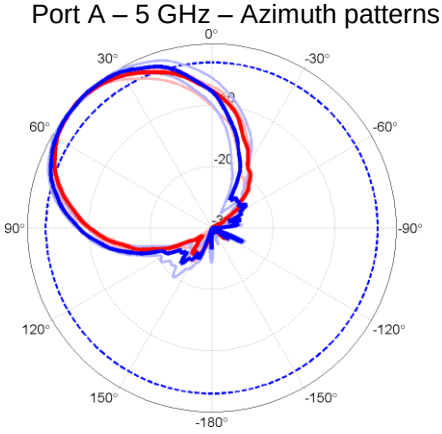
Datasheet version 1. Jun 07, 2015

KPPA-5HV5HV-65SA Detailed specifications

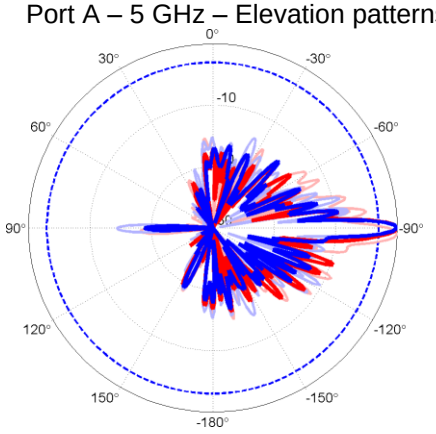
Electrical	Port A	Port B
Frequency range	5400-5900 MHz	
Polarization	Vertical and Horizontal	
Gain	17.5 dBi	
Gain at cross-over	13.5 dBi	
Azimuth 3dB beamwidth	65 ° per port, 130 ° total	
Elevation 3dB beamwidth	6.0 °	
Electrical Downtilt	< 0.5 °	
VSWR, Return loss	< 2:1. > 10 dB	
F/B ratio	-28 dB	
Cross-pol ratio	> 35 dB	
Port to port isolation	> 26 dB (same radio) > 40 dB (other radio)	
ABABAB frequency re-use	-29 dB	

ABCABC frequency re-use	-34 dB
Input power	50 W max per port
Connector Type	Type N Female x 4
Mechanical	
Dimensions	28.25” l, 7” w, 3.5” d
Weight	8.5 lb
Mounting method	Carriage bolts
Mounting pole dia	1¼” - 4”
Surface Finish	Matt powder coat
Environmental	
Temperature range	-40° to +60° C / +140° F
Wind speed	160 km/h / 100 mph
UV protection	UV resistant UPVC
Ingress protection	IP55 rain resistant

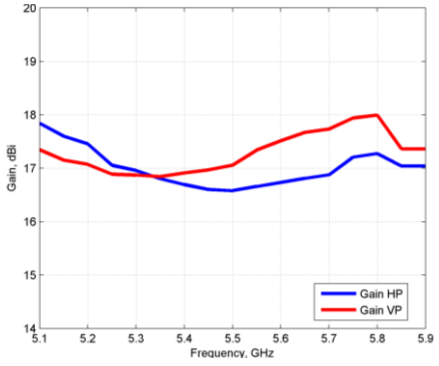
Port A – 5 GHz – Azimuth patterns



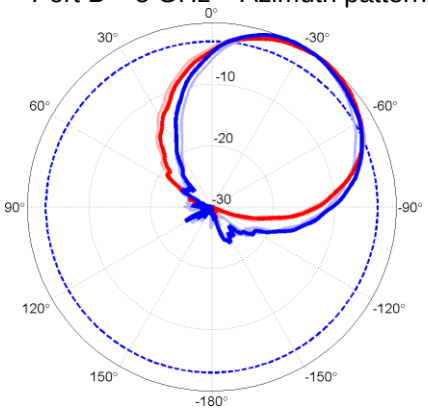
Port A – 5 GHz – Elevation patterns



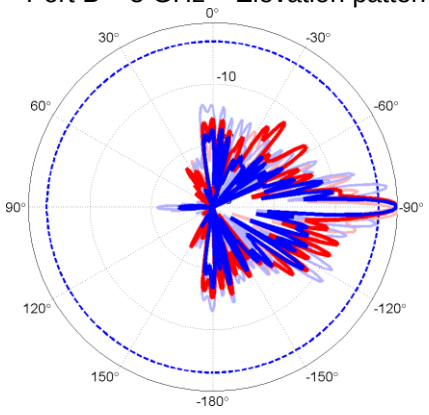
Port A – 5 GHz – Gain



Port B – 5 GHz – Azimuth patterns



Port B – 5 GHz – Elevation patterns



Port B – 5 GHz – Gain