

# Product Data Sheet

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## Dual-sector antenna KPPA-2HV5HV-90SS

2 GHz band  $\pm 45^\circ$  V/H polarization, 5 GHz band V/H polarization



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:

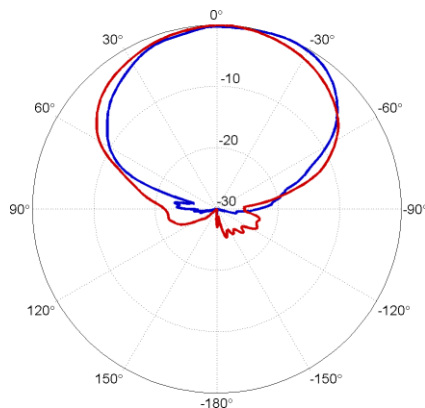
- Two forward-facing  $90^\circ$  sector antennas in a single radome, one for each band
- High gains of 15.2 and 15.8 dBi
- Clean patterns for frequency re-use on the same tower
- Supplied with KP's over-designed universal adjustable bracket, in hot-dip galvanised steel, with wide U-bolts for mounting on poles or tower legs up to 4".
- Mounting space for two ePMP radios on back

### Advantages:

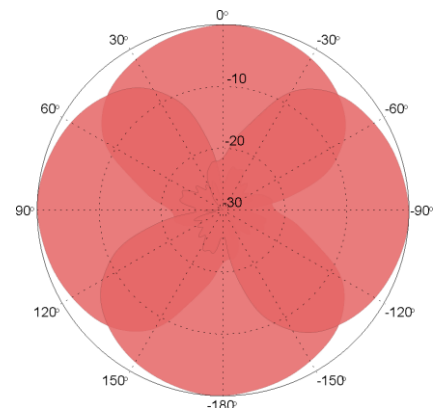
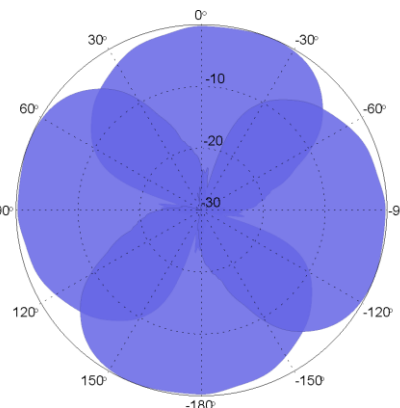
- Reduced inches on tower, only 28" tall
- Single mounting point means half the tower rental
- Lower wind resistance than two equivalent sectors
- Allows upgrade path to add a frequency band without using more space on tower.
- Faster installation than two single-band sectors

### Overview pattern diagrams:

A single KPPA-2HV5HV-90SS has two dual-pol ports, facing in the same direction, one for each band.



Four KPPA-2HV5HV-90SS mounted around a tower give complete  $360^\circ$  coverage in both bands, without taking up any more tower space.



### Also available:

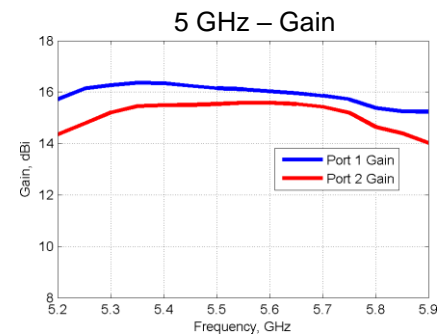
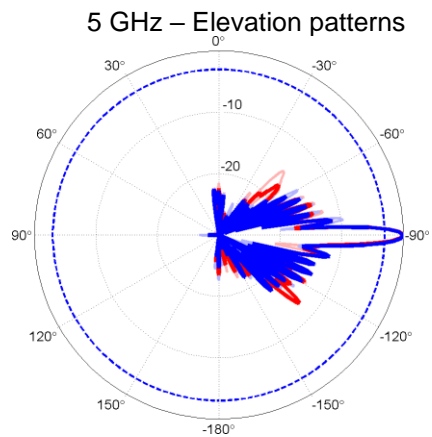
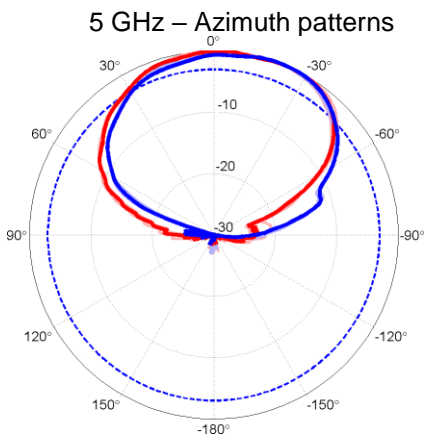
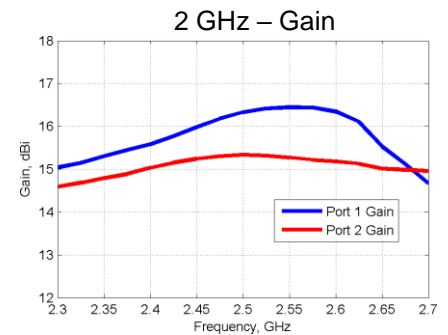
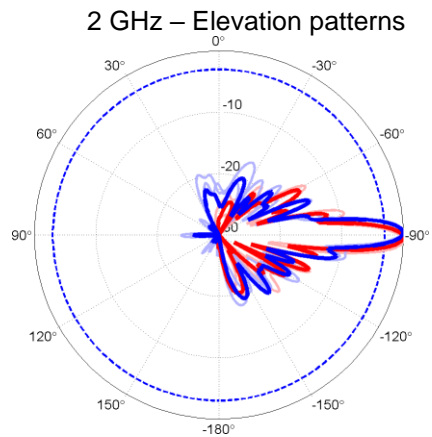
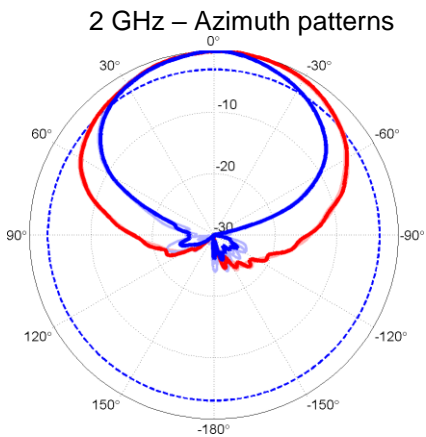
- 2, 3 and 5 GHz single-band dual sectors in a single radome
- 2/3 and 3/5 GHz dual-band sectors in a single radome
- 2, 3 and 5 GHz single-band quad-pol sector antennas

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## KPPA-2HV5HV-90SS Detailed specifications

Electrical		
Frequency range	2300-2700	5200-5900
Polarization	V/H	V/H
Gain	15.2 dBi	15.8 dBi
Azimuth 3dB beamwidth	90 °	90 °
Elevation 3dB beamwidth	7.2 °	4.9 °
Electrical Downtilt	< 1 °	
VSWR, Return loss	< 2:1 , < 10 dB	
F/B ratio	> 26 dB	> 28 dB
Cross-pol ratio	> 29 dB	> 30 dB
Port to port isolation, in-band	> 29 dB	> 26 dB
between bands	> -39 dB	
ABAB frequency re-use	-26 dB	-30 dB
ABABAB frequency re-use	-22 dB	-24 dB
ABCABC frequency re-use	-26 dB	-30 dB

Input power	50 W max per port				
Connector Type	Type N Female x 4				
Mechanical					
Dimensions	35" x 11" x 6"				
Weight	15 lb				
Mounting method	Carriage bolts				
Mounting pole dia	1¼" - 3 ½"				
Surface Finish	Matt powder coat				
Environmental					
Temperature range	-40° to +60° C / +140° F				
Wind speed	160 km/h / 100 mph				
Wind loading	at km/h	80	100	125	160
	kg force	6	9.5	15	24
UV protection	UV resistant UPVC				
Ingress protection	IP55 rain resistant				



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