

Product Data Sheet

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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:

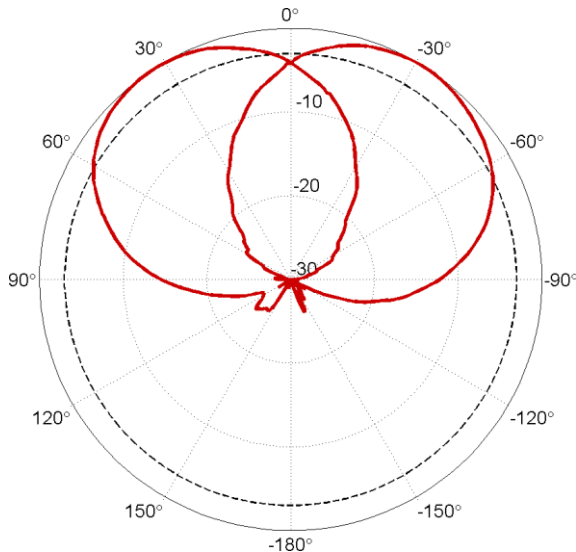
- Two 60° sector antennas in a single radome, mounted 60° apart
- High gain of 16.5 dBi per port, four ports
- Clean patterns for frequency re-use on the same tower
- Supplied with KP's over-designed universal adjustable bracket, in hot-dip galvanised steel, with wide U-bolts for mounting on poles or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

Advantages:

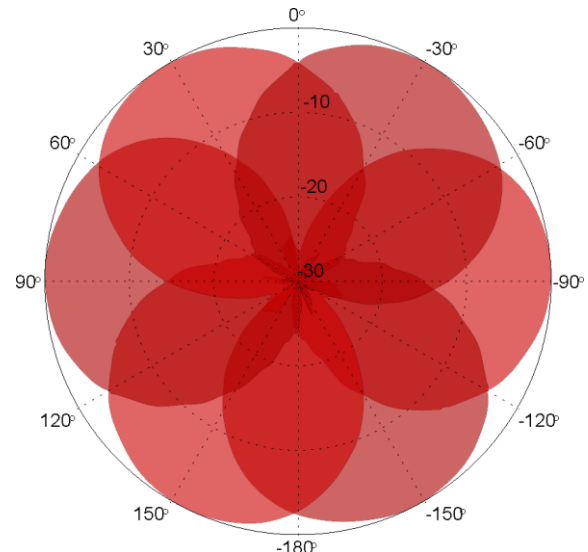
- Reduced inches on tower, only 28" tall
- Single mounting point means half the tower rental
- Lower wind resistance than two equivalent sectors
- Faster installation
- Greater coverage than a single sector

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

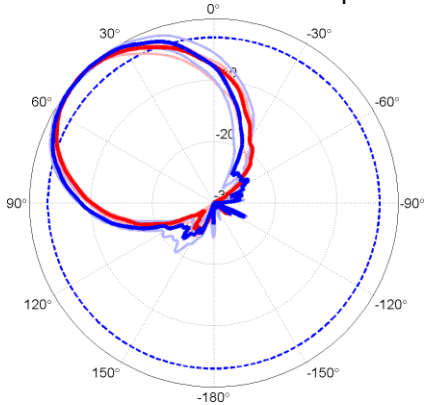
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KPPA-5HV5HV-65SA Detailed specifications

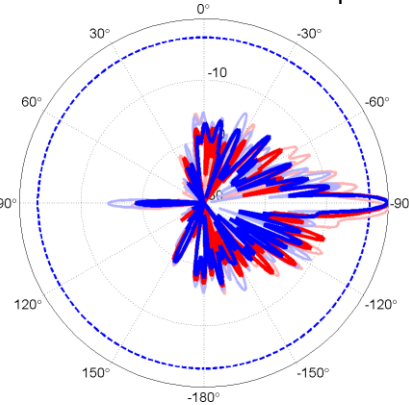
| Electrical | Port A | Port B |
|-------------------------|-----------------------------------------------|--------|
| Frequency range | 5200-5900 MHz | |
| Polarization | Vertical and Horizontal | |
| Gain | 16.5 dBi | |
| Gain at cross-over | 13.5 dBi | |
| Azimuth 3dB beamwidth | 65 ° per port, 130 ° total | |
| Elevation 3dB beamwidth | 4.8 ° | |
| Electrical Downtilt | < 0.5 ° | |
| VSWR, Return loss | < 2:1, > 10 dB | |
| F/B ratio | > 25 dB | |
| Cross-pol ratio | > 35 dB | |
| Port to port isolation | > 26 dB (same radio) > 40 dB (other radio) | |
| ABAB frequency re-use | -25 dB | |
| ABABAB frequency re-use | -20 dB | |

| | |
|-------------------------|--------------------------|
| ABCABC frequency re-use | -27 dB |
| Input power | 50 W max per port |
| Connector Type | Type N Female x 4 |
| Mechanical | |
| Dimensions | 29" x 11" x 7" |
| Weight | 16 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 |
| UV protection | UV resistant UPVC |
| Ingress protection | IP55 rain resistant |

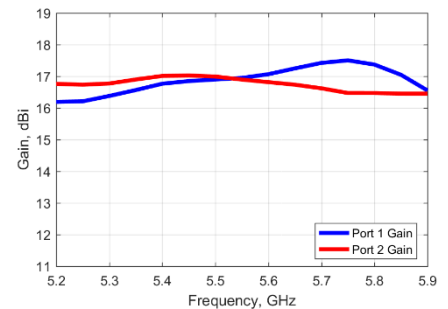
Port A – 5 GHz – Azimuth patterns



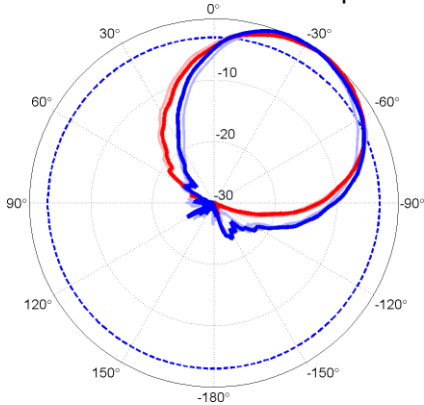
Port A – 5 GHz – Elevation patterns



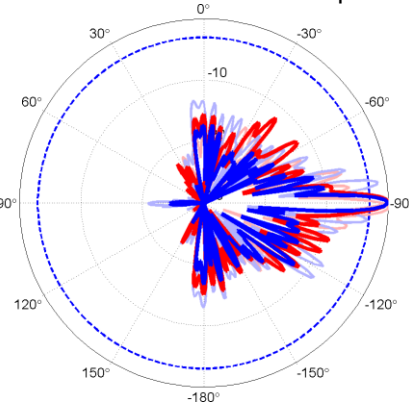
Port A – 5 GHz – Gain



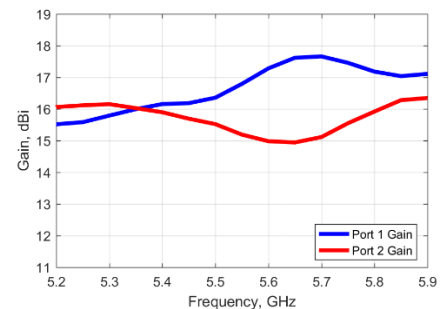
Port B – 5 GHz – Azimuth patterns



Port B – 5 GHz – Elevation patterns



Port B – 5 GHz – Gain



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