

Product Data Sheet

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KP-900DP120S-45

902 MHz to 928 MHz, 120 Degree Sector Antenna, 12.5dBi, 2-Port, ±45 Slant

- High gain and dual slant polarization
- Complete coverage with two or three sector antennas

Electrical Specification

Frequency Band	MHz	902—928
Gain	dBi	12.5±0.5
Polarization		Slant (±45°)
Horizontal HPBW	Degree	120±5
Horizontal Squint	Degree	±4
Vertical HPBW	Degree	13.5±0.5
Electrical Downtilt	Degree	<1
Front-to-Back Ratio @ 180°±30°	dB	15
Cross-polarization Ratio over HPBW	dB	13
VSWR		1.3:1 typ 1.5:1 max
Return Loss	dB	17 typ 14 max
Port-to-Port Isolation	dB	25
Max. Input Power per Port	W	50
Impedance	Ohms	50

Mechanical Specifications

RF Connector Type	Type N Female
RF Connector Quantity	2
RF Connector Position	Bottom of radome
Electrical Grounding	RF connector grounded to reflector and mounting bracket
Radome Material	UV resistant PVC
Ingress Protection	IP55 rain and dust resistant
Wind Load, frontal	450N @ 160km/h 101 lbf @ 100mph
Max. Wind Speed	160km/h 100mph
Temperature Range	-40° to +60° C -40° to +140° F

Bracket Specifications

Material Type	Hot Dipped Galvanized Steel
Mechanical Tilt (Degree)	-2 – 10
Mounting Type	Pipe Mount
Mounting pole diameter	25 mm – 89 mm 1¼ in – 3½ in
Antenna-to-Pipe Distance	131 mm 5 in
Bracket-to-Bracket Distance	762 mm 30 in

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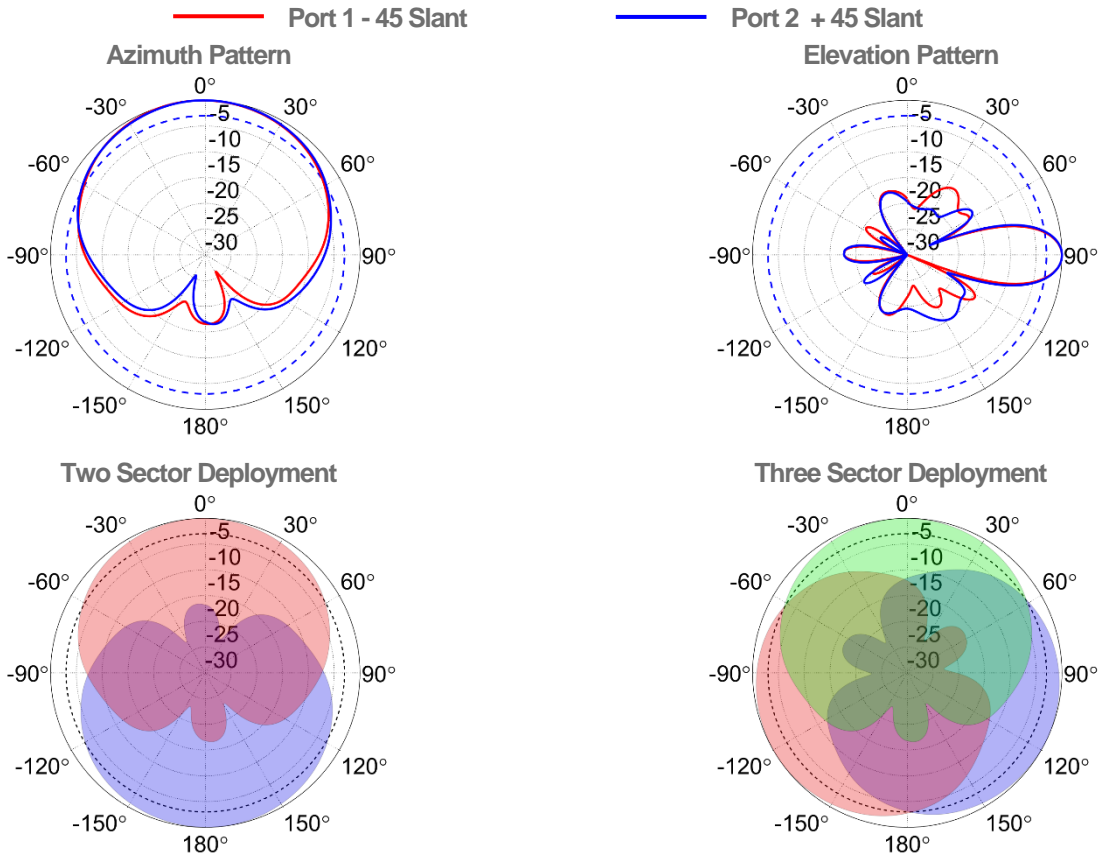
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Sector Dimensions

Length	1260 mm 49 in
Width	280 mm 11 in
Height	127 mm 5 in
Net Weight, with brackets	5.4 kg 17 lb

Graphical Data



Appendix

HPBW: Average and variation of the antenna's 3dB beamwidth (half power beamwidth) in its horizontal (Azimuth) or vertical (Elevation) pattern.
 Horizontal Squint: Angle in the antenna's azimuth pattern in which the maximum gain occurs. Reported is the maximum variation in the frequency band.
 Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.
 Gain: Antenna's average gain and variation in each frequency band.
 Front to Back Ratio @ 180°±30°: Difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.
 Cross-polarization Ratio over HPBW (dB): Maximum difference between the co-polarization and cross-polarization gain across the sector's HPBW.