

Product Data Sheet

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KP-2DP33S-45

2.3 GHz to 2.7 GHz, 33 Degree Sector Antenna, 19.0 dBi, 2-Port, ±45 Slant

- Professional sector line with stable and high gain
- Interference mitigation with azimuth and elevation side-lobe suppression
- Ideal for 6-sector and 8-sector frequency-reuse one and two, respectively, with LTE equipment

Electrical Specification

Frequency Band	MHz	2300—2500	2500—2700
Gain	dBi	18.5±0.25	19.0±0.25
Polarization		Slant (±45°)	Slant (±45°)
Horizontal HPBW	Degree	36±1	34±1
Horizontal Squint	Degree	±0.5	±0.5
Vertical HPBW	Degree	8.5±0.3	7.8±0.2
Electrical Downtilt	Degree	4	4
Front-to-Back Ratio @ 180°±30°	dB	35	30
Upper Side Lobe Suppression (+20°)	dB	16	15
Cross-polarization Ratio over HPBW	dB	14	15
VSWR		1.3 typ 1.5 max	1.3 typ 1.5 max
Return Loss	dB	17 typ 14 max	17 typ 14 max
Port-to-Port Isolation	dB	30	25
Max. Input Power per Port	W	50	50
Impedance	Ohms	50	50

Mechanical Specifications

RF Connector Type	N-Type 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
Reflector Material	Anodized Aluminium
Ingress Protection	IP65 rain and dust resistant
Wind Load, frontal	343N @ 160km/h 77lbf @ 100mph
Max. Wind Speed	160km/h 100mph
Temperature Range	-40° to +60° C -40° to +140° F

Bracket Specifications

Material Type	Powder Coated High-Strength Aluminium
Mechanical Tilt (Degree)	-1 to +11 (Slot A) -3 to +7 (Slot B)
Mounting Type	Pipe Mount
Mounting pole diameter	19 mm – 114 mm 0.75 in – 4.5 in
Antenna-to-Pipe Distance	121 mm 4.8 in
Bracket-to-Bracket Distance	808 mm 31.8 in

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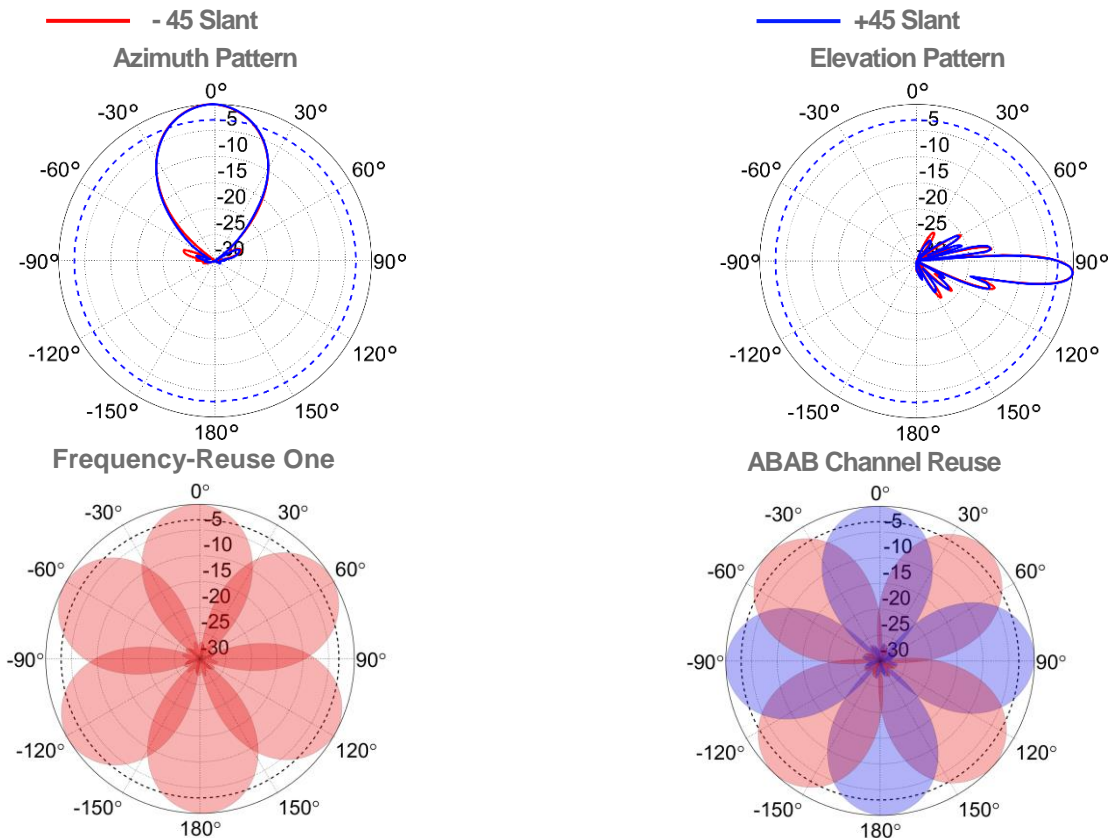
Sector Dimensions

Length	918 mm		36.1 in
Width	286 mm		11.3 in
Height	131 mm		5.2 in
Net Weight, with brackets	9.4 kg		20.7 lb

Shipping Dimensions

Length	1200 mm		47.2 in
Width	320 mm		12.6 in
Height	180 mm		7.1 in
Net Weight, with brackets	9.5 kg		20.9 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 @ $180^\circ \pm 30^\circ$: Difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over $\pm 30^\circ$ angles.
Upper Side Lobe Suppression: The maximum value for the antenna's elevation upper side lobes from the main beam to $+20^\circ$.
Cross-polarization Ratio over HPBW (dB): Maximum difference between the co-polarization and cross-polarization gain across the sector's HPBW.

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