Product Data Sheet

☎ 1-855-276-5772 or 780-702-7577
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✉ 15397 117 Ave, Edmonton, AB T5M3X4, Canada

PERFORMANCE ANTENNAS

KP-TWDPFP9

470 MHz-698 MHz, 65 Degree Flat Panel Antenna, 9 dBi, 2-Port, H/V Pol

- Stable 9 dBi gain in a small-form factor
- Side lobe suppression and high front to back ratio
- Polarization-Adjustable Pipe Mount Brackets

Electrical Specification

Frequency Band	MHz	470-698
Gain	dBi	9.0±1
Polarization		Horizontal/Vertical
Horizontal HPBW	Degree	75±10
Horizontal Squint	Degree	±2
Vertical HPBW	Degree	70±10
Electrical Downtilt	Degree	<1
Front-to-Back Ratio @ 180°±30°	dB	20 typ | 15 min
Cross-polarization Ratio Over HPBW	dB	15
VSWR		1.5 typ | 2.0 max
Return Loss	dB	14 typ | 12 max
Port-to-Port Isolation	dB	25
Max. Input Power per Port	W	50
Impedance	Ohms	50

Mechanical Specifications

RF Connector Type	N-Type Female
RF Connector Quantity	2
RF Connector Position	Back of reflector
Electrical Grounding	RF connector grounded to reflector and mounting bracket
Radome Material	UV Resistant ABS
Ingress Protection	IP55 rain and dust resistant
Max. Wind Speed	210km/h | 130mph
Temperature Range	-40° to +60° C | -40° to +140° F

Bracket Specifications

Material Type	Powder Coated Galvanized Steel
Mechanical Tilt (Degree)	±15
Mounting Type	Pipe Mount or Wall Mount
Mounting pole diameter	30 mm – 90 mm | 1.2 in – 3.5 in

Antenna Dimensions

Length	348 mm | 13.7 in
Width	348 mm | 13.7 in
Height	130 mm | 5.1 in
Net Weight, with brackets	1.5 kg | 3.3 lb

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See www.kpperformance.ca for more details. Revised 23 April 2019.

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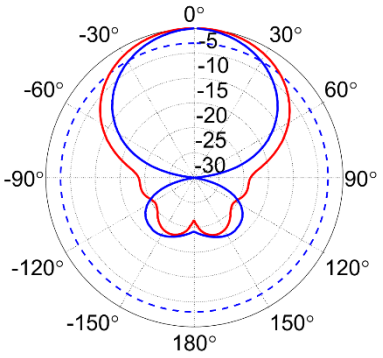
Shipping Dimensions

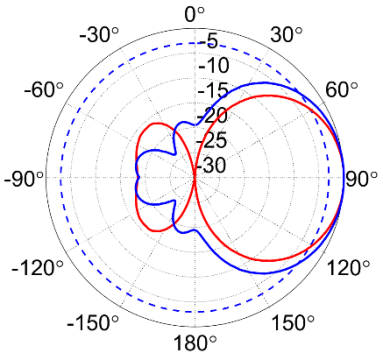
Length	380 mm	|	15.0 in
Width	380 mm	|	15.0 in
Height	200 mm	|	7.9 in
Net Weight, with brackets	1.6 kg	|	3.5 lb

Graphical Data

Horizontal
Azimuth Pattern



Vertical
Elevation Pattern



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): Typical difference between the co-polarization and cross-polarization gain across the sector's HPBW.

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