

Product Data Sheet

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KP-TWDPLP9

470 MHz-698 MHz, Dual Polarization Log Periodic Antenna 9 dBi

- Aircraft Quality 6061-T6 aluminium and compression crimped elements for optimum strength
- Corrosion, fade, and ice-build up resistance with a 5 year fade and salt guarantee

Electrical Specification

Frequency Band	MHz	470-550	550-698
Gain	dBi	7.5±1	9±1
Polarization		Horizontal/Vertical or ± 45 Slant	
Horizontal HPBW	Degree	65±5	55±5
Horizontal Squint	Degree	±2	±2
Vertical HPBW	Degree	65±5	55±5
Electrical Downtilt	Degree	0	0
Front-to-Back Ratio @ 180°±30°	dB	10	15
Cross-polarization Ratio	dB	30	30
VSWR		1.5:1 typ 2:1 max	1.5:1 typ 2:1 max
Return Loss	dB	14 typ 10 max	14 typ 10 max
Port-to-Port Isolation	dB	30	30
Max. Input Power per Port	W		50
Impedance	Ohms		50

Mechanical Specifications

RF Connector Type	N-Type female on pigtailed
RF Connector Quantity	2
RF Connector Position	Antenna boom
Electrical Grounding	RF connector grounded to boom and mounting bracket
Material	6061-T6 Aluminium
Surface Finish	Ice and UV Resistant Black Powder Coating
Max. Wind Speed	160km/h 100mph
Temperature Range	-40° to +60° C -40° to +140° F
Ingress Protection	IP55 rain and dust resistant

Bracket Specifications

Material Type	Powder Coated Galvanized Steel
Mechanical Tilt (Degree)	±15
Mounting Type	Pipe Mount
Mounting pole diameter	19 mm – 76 mm 0.75 in – 3 in

Antenna Dimensions

Length	1100 mm 43.3 in
Width	370 mm 14.6 in
Height	370 mm 14.6 in
Net Weight, with bracket	2.5 kg 5.5 lb