

Product Data Sheet



KPPA-900DPY17

902 MHz to 928 MHz, Yagi Antenna, 17.5dBi, 2-Port

- Aircraft Quality 6061-T6 Aluminum with 5/16" Elements Compression Crimped Welded to a 1" Boom
- Powder-Coated Black for Corrosion, Fade, and Ice-Build Up Resistance
- Adjustable Polarization between Horizontal/Vertical and +/-45 Slant

Electrical Specification

Frequency Band	MHz	900-928
Gain	dBi	17.5
Polarization		Horizontal/Vertical or $\pm 45^\circ$ Slant
Horizontal HPBW	Degree	25
Horizontal Squint	Degree	± 2
Vertical HPBW	Degree	25
Front-to-Back Ratio @ $180^\circ \pm 30^\circ$	dB	23
Cross-polarization Ratio over HPBW	dB	26
Port Isolation	dB	25
VSWR		1.3:1 typ 1.5:1 max
Return Loss	dB	18 typ 14 max
Max. Input Power per Port	W	50
Impedance	Ohms	50

Mechanical Specifications

RF Connector Type	RP-SMA on pigtail
RF Connector Quantity	2
RF Connector Position	Antenna boom
Electrical Grounding	RF connector grounded to boom and mounting bracket
Yagi Material	6061-T6 Aluminium
Surface Finish	Ice and UV Resistant Black Powder Coating
Max. Wind Speed	250km/h 155mph
Temperature Range	-40° to $+60^\circ$ C -40° to $+140^\circ$ F
Ingress Protection	IP55 rain and dust resistant

Bracket Specifications

Material Type	Powder Coated 6061-T6 Aluminium
Mechanical Tilt (Degree)	-5 to +15
Mounting Type	Pipe Mount
Mounting pole diameter	19 mm – 76 mm 0.75 in – 3 in

Antenna Dimensions

Length	1905 mm 75 in
Width	127 mm 5 in

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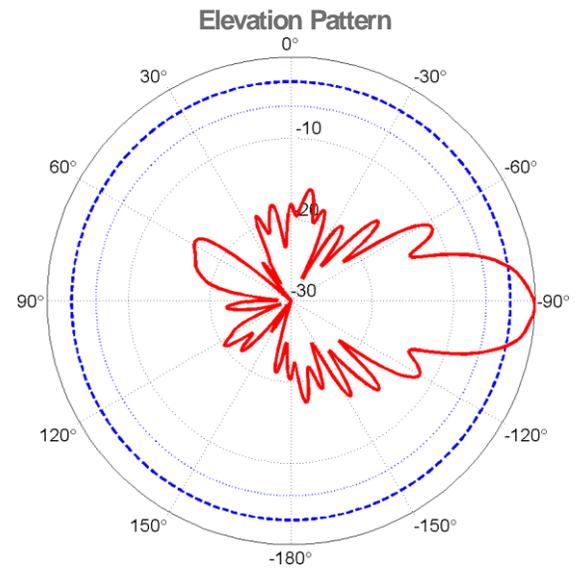
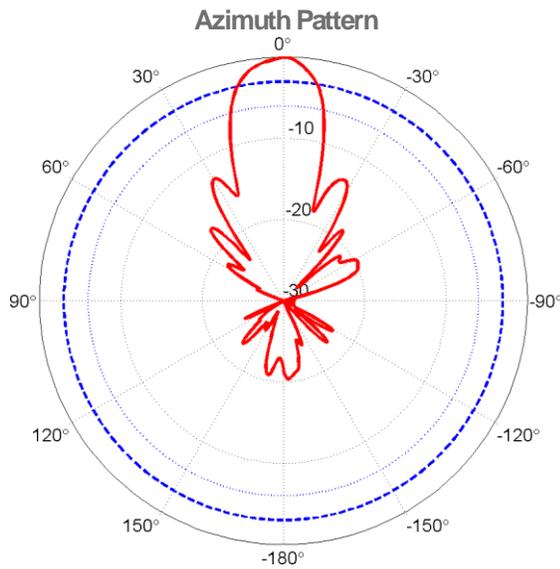
Height

127 mm | 5 in

Net Weight, with brackets

1.8 kg | 4 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.

Gain: Antenna's average gain 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.

Cross-polarization Ratio (dB): Maximum difference between the co-polarization and cross-polarization gain across the sector's HPBW.