

Product Data Sheet

YA17KPPD

850 MHz to 928 MHz, Yagi Antenna, 17.5dBi, 1-Port

- Aircraft Quality 6061-T6 aluminium and compression crimped elements for optimum strength
- Powder-coated black for corrosion, fade, and ice-build up resistance

Electrical Specification

Frequency Band	MHz	850-900	900-928
Gain	dBi	15.5	17.5
Polarization		Adjustable H or V	
Horizontal HPBW	Degree	30	25
Horizontal Squint	Degree	±2	±2
Vertical HPBW	Degree	30	25
Front-to-Back Ratio @ 180°±30°	dB	20	25
VSWR		1.7:1 typ 2.1:1 max	1.3:1 typ 2:1 max
Return Loss	dB	12 typ 9 max	18 typ 10 max
Max. Input Power per Port	W		50
Impedance	Ohms		50

Mechanical Specifications

RF Connector Type	N-type Female
RF Connector Quantity	1
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	160km/h 100mph
Temperature Range	-40° to +60° C -40° to +140° F
Ingress Protection	IP55 rain and dust resistant

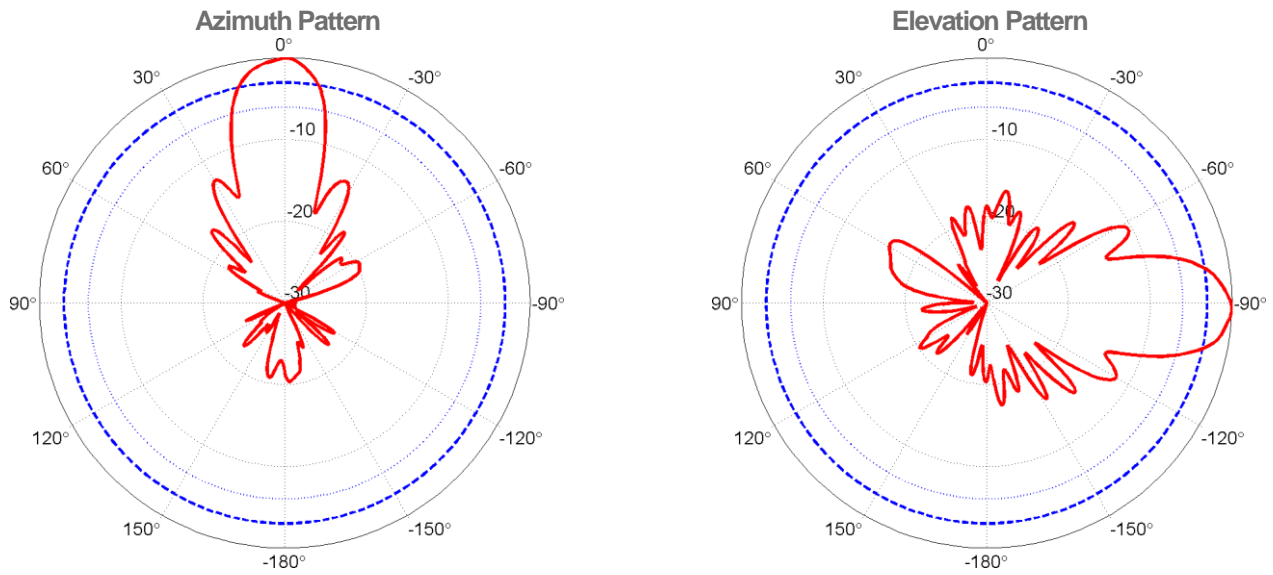
Bracket Specifications

Material Type	Powder Coated 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
Height	127 mm 5 in
Net Weight, with brackets	1.4 kg 3 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.