

YA14KPPD

850 MHz to 928 MHz, Yagi Antenna, 14.5dBi, 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 | 13.0 | 14.5 |
| Polarization | | Adjustable H or V | |
| Horizontal HPBW | Degree | 40 | 35 |
| Horizontal Squint | Degree | ±2 | ±2 |
| Vertical HPBW | Degree | 45 | 40 |
| 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 | 5 | 0 |
| Impedance | Ohms | 5 | 0 |

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 | |

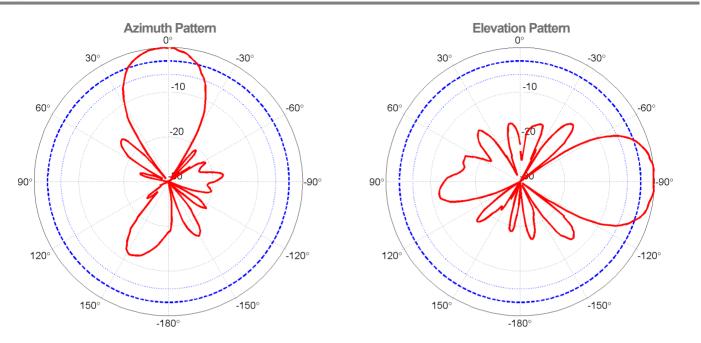
Antenna Dimensions

| Length | 966 mm 38 in |
|---------------------------|----------------|
| Width | 127 mm 5 in |
| Height | 127 mm 5 in |
| Net Weight, with brackets | 1.4 kg 3 lb |

Product Data Sheet



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.

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