# Product Data Sheet

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# **KP-TWDPY9**

# 470 MHz-698 MHz, Dual Polarization Yagi Antenna, 9 dBi

- 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**

550-698	
9.0±1	
Horizontal/Vertical or $\pm$ 45 Slant	
65±10	
±2	
55±10	
0	
yp   10 min	
30	
yp   2:1 max	
yp   10 max	
25	

### **Mechanical Specifications**

RF Connector Type	N-Type Male on pigtails
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 6061-T6 Aluminium
Mechanical Tilt (Degree)	±15
Mounting Type	Pipe Mount
Mounting pole diameter	19 mm – 76 mm   0.75 in – 3 in
Antonno Dimonoiono	

## **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

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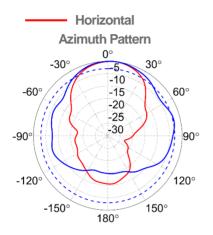


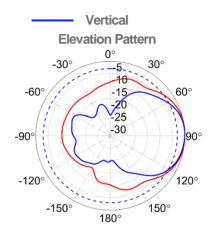


# **Shipping Dimensions**

Length	1220mm   48 in
Width	406 mm   16 in
Height	406 mm   16 in
Net Weight, with brackets	2.6 kg   5.7 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. 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  $@180^{\circ}\pm30^{\circ}$ : Difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over  $\pm30^{\circ}$  angles. Cross-polarization Ratio over HPBW (dB): Maximum difference between the co-polarization and cross-polarization gain across the sector's HPBW.