

### Details

806-896 / 1850-1990 MHz

The TP-80CW-2-60V/H is a dual band vertically or horizontally polarized directional panel antenna. The antenna consists of two dipole arrays and a cross band coupler enclosed in a UV stabilized ASA radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection. A PIM rated version is available.

#### Electrical Specifications

<b>Freq Range:</b>	806-896 / 1850-1990 MHz
<b>Gain:</b>	7.5 +/- 0.5 dBd @ 806-896 MHz
<b>Gain Multiple:</b>	16.5 +/- 0.5 dBi @ 1850-1990 MHz
<b>VSWR:</b>	1.5:1 max.
<b>Front Back:</b>	20 dB min. / 28 dB min.
<b>Pol:</b>	vertical or Horizontal
<b>Power:</b>	100 Watts
<b>H Plane BW:</b>	60° @ 806-896 MHz
<b>H Plane BW Multiple:</b>	21° @ 1850-1990 MHz
<b>E Plane BW:</b>	64° @ 806-896 MHz
<b>E Plane BW Multiple:</b>	22° @ 1850-1990 MHz
<b>X Pol:</b>	15 dB min.
<b>3rd Order IM 2 20w:</b>	Optional -150 dbc on request
<b>Imp:</b>	50 ohms nominal
<b>Termination:</b>	7/16 DIN female



#### Mechanical Specifications

<b>Length:</b>	18 in. (457 mm)
<b>Width:</b>	18 in. (457 mm)
<b>Depth:</b>	4.5 in. (114 mm)
<b>Weight:</b>	12 lb. (5.4 kg)
<b>Rated Wind vel:</b>	125 mph (200 km/h)
<b>Hor Thrust:</b>	140 lb. (63.6 kg)
<b>Mech tilt:</b>	0 - 15 degrees
<b>Mounting Pipe:</b>	1 - 3.5 in. (25.4 - 88.9 mm)

#### Material Specifications

<b>Radiating Elements:</b>	Plated Copper on PCB
<b>Reflector:</b>	Irridited aluminum
<b>Radome:</b>	Gray UV stabilized ASA
<b>Clamps:</b>	Aluminum and HDG steel

**Antenna Patterns**

