

# TA-807 Dual Band Directional Panel

## 824-896 / 1850-1990 MHz



The TA-807 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.

### Electrical Specifications

**Frequency Range:** 824-896 / 1850-1990 MHz  
**Gain:** 7.5 +/- 0.5 dBd @ 824-896 MHz  
 16.5 +/- 0.5 dBi @ 1850-1990 MHz  
**VSWR:** 1.5:1 max.  
**Front to Back Ratio:** 20 dB min. / 28 dB min.  
**Polarization:** Vertical or Horizontal  
**Power Rating:** 100 Watts  
**H-Plane Beamwidth:** 60° @ 824-896 MHz  
 21° @ 1850-1990 MHz  
**E-Plane Beamwidth:** 64° @ 824-896 MHz  
 22° @ 1850-1990 MHz  
**Cross Pol. Discrimination:** 15 dB min.  
**Impedance:** 50 ohms nominal  
**Termination:** 7/16 DIN female

### Mechanical Specifications

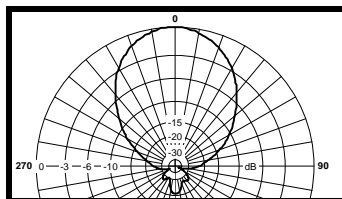
**Length:** 18 in. (457 mm)  
**Width:** 18 in. (457 mm)  
**Depth:** 4.5 in. (114 mm)  
**Weight (incl. Clamps):** 12 lb. (5.4 kg)  
**Rated Wind Velocity:** 125 mph (200 km/h)  
**Hor. Thrust at rated wind:** 140 lb. (63.6 kg)  
**Mechanical Tilt:** 0 - 15 degrees  
**Mounting (O.D.):** 1 - 3.5 in. (25.4 - 88.9 mm)

### Materials

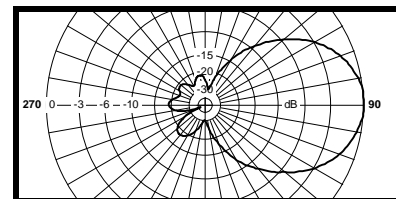
**Radiating Elements:** Plated Copper on PCB  
**Reflector:** Irridited aluminum  
**Radome:** Gray UV stabilized ASA  
**Clamps:** Aluminum and HDG steel

Typical mid band values. (For details , contact factory)  
 Specifications subject to change without notice

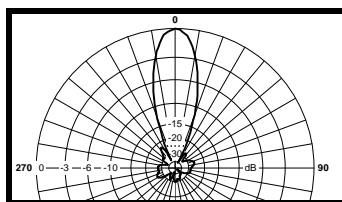
H-Plane @ 824-896 MHz



E-Plane @ 824-896 MHz



H-Plane @ 1850-1990 MHz



E-Plane @ 1850-1990 MHz

