

TA-1809 Directional Panel

1850-1990 MHz



The TA-1809 consists of a printed broadband dipole array enclosed in an aluminum base with a UV stabilized ASA radome for superior weatherability. It was designed for applications such as PCS repeater sites which require medium gain and low sidelobes. It can be mounted for either vertical or horizontal polarization. The antenna is at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 1850-1990 MHz
Gain: 18 dBi
VSWR: 1.5:1 max
Front to Back Ratio: 30 dB min.
Polarization: Vertical or Horizontal
Power Rating: 250 Watts
H-Plane Beamwidth: 21 +/- 1 degrees
E-Plane Beamwidth: 22 +/- 1 degrees
Cross Pol. Discrimination: 20 dB min.
Impedance: 50 ohms nominal
3rd Order I.M. (2x20W): -147 dBc
Termination: 7/16 DIN female (N-optional)

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

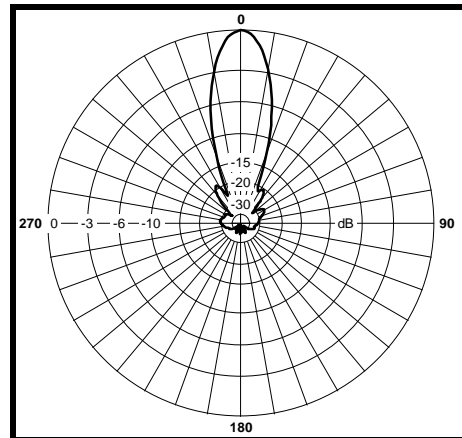
Mechanical Specifications

Length: 18 in. (457 mm)
Width: 18 in. (457 mm)
Depth: 2.25 in. (57 mm)
Weight (incl. Clamps): 11 lb. (5 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Hor. Thrust at rated wind: 140 lb. (63.6 kg)
Mechanical Tilt: 0 - 15 degrees (optional)
Mounting (O.D.): 1.0 - 3.5 in. (25.4 - 89 mm)

Materials

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

H-Plane



E-Plane

