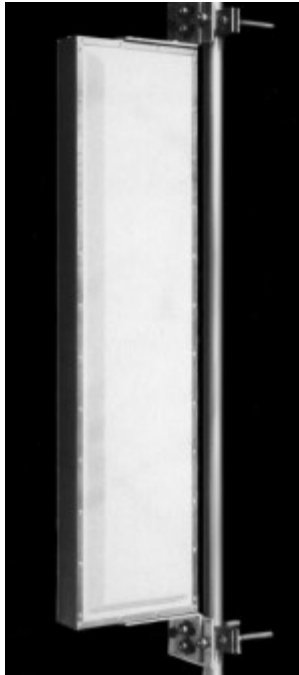


## TA-814 Bidirectional

806-866, 824-896, 890-960 MHz



The TA-814 bidirectional antenna is used to provide coverage along service corridors where omnidirectional coverage is either not required or not desired. The antenna mounts to the side of a tower or pipe, therefore eliminating the need for tower top space. Low side lobes and up to 6 degrees of electrical downtilt makes this antenna useful for many applications.

### Electrical Specifications

**Frequency Range:** 806-866, 824-896, 890-960 MHz  
**Gain:** 9.5 dBd bidirectional  
**VSWR:** 1.5:1 max. 1.35:1 typical  
**Polarization:** Vertical  
**Power Rating:** 500 Watts  
**H-Plane Beamwidth:** 60 degrees each side  
**E-Plane Beamwidth:** 18 degrees  
**Electrical Downtilt:** 0, 4, 6 degrees  
**Cross Pol. Discrimination:** 20 dB min.  
**Impedance:** 50 ohms nominal  
**Termination:** N female

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

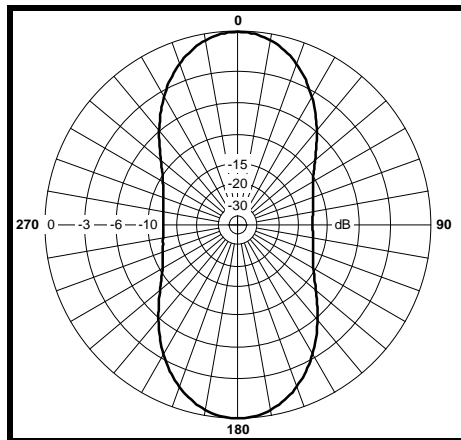
### Mechanical Specifications

**Length:** 48 in. (1220 mm)  
**Width:** 6 in. (152 mm)  
**Depth:** 13 in. (330 mm)  
**Weight (incl. Clamps):** 40 lb. (18.2 kg)  
**Rated Wind Velocity:** 125 mph (200 km/h)  
**Hor. Thrust at rated wind:** 270 lb. (123 kg)  
**Mechanical Tilt:** 0 - 6 degrees  
**Mounting (O.D.):** 1.75 - 4.0 in. (44.5 - 102 mm)

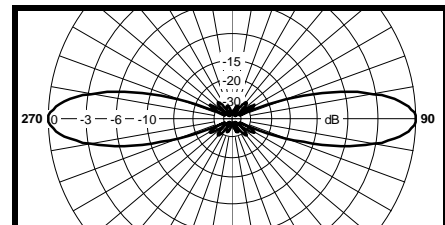
### Materials

**Radiating Elements:** Irridited aluminum  
**Reflector:** Irridited aluminum  
**Radome:** Gray UV stabilized ASA  
**Clamps:** HDG steel

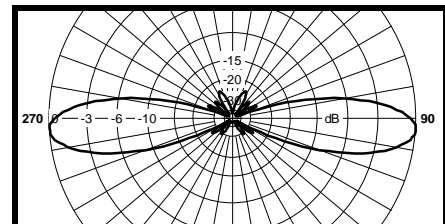
H-Plane



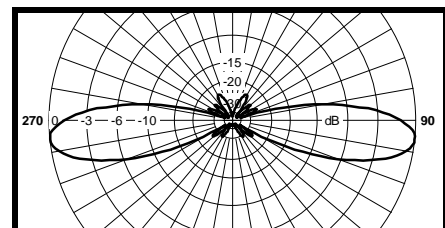
E-Plane



T0



T4



T6