

# TA-824-4-90 Dual Polarized Sector

## 824-896 MHz



The TA-824-4-90 is a dual slant polarized 90 degree sectoral antenna. The antenna is intended for use where multiple antennas may not be practical. It consists of a broadband dipole array on an aluminum base with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

### Electrical Specifications

**Frequency Range:** 824-896 MHz  
**Gain:** 2 x 10.5 +/- 0.5 dBd co-polarized  
**VSWR:** 1.5:1 max.  
**Front to Back Ratio:** 25 dB min.  
**Polarization:** Dual slant +45 and -45  
**Power Rating:** 500 Watts  
**H-Plane Beamwidth:** 90 degrees  
**E-Plane Beamwidth:** 18 degrees  
**Electrical Downtilt:** 0°, 4°, 6°  
**Port to Port Isolation:** 25 dB  
**Impedance:** 50 ohms nominal  
**Termination:** 2 x N female (7/16 optional)

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

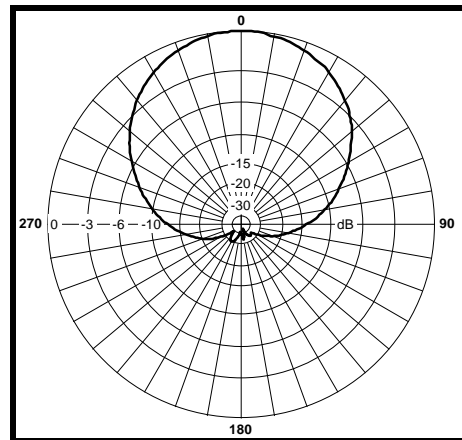
### Mechanical Specifications

**Length:** 48 in. (1220 mm)  
**Width:** 13.5 in. (343 mm)  
**Depth:** 8 in. (203 mm)  
**Weight (incl. Clamps):** 29 lb. (13.2 kg)  
**Rated Wind Velocity:** 125 mph (200 km/h)  
**Hor. Thrust at rated wind:** 274 lb. (124.2 kg)  
**Mechanical Tilt:** 0 - 15 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

Azimuth



Elevation

