

## TA-2105H-12-90 Sector

### 2150-2350 or 2500-2700 MHz



The TA-2105H-12-90 is a broadband horizontally polarized 90 degree sectoral antenna. It was designed specifically for applications requiring superior functionality to maximize overall system performance. Radiating elements are protected by a weatherproof radome for operation under severe weather conditions and are at DC ground to aid in lightning protection.

#### Electrical Specifications

**Frequency Range:** 2150-2350 or 2500-2700 MHz  
**Gain:** 16 +/- 1 dBi  
**VSWR:** 1.5:1 max.  
**Front to Back Ratio:** 30 dB min.  
**Polarization:** Horizontal  
**Power Rating:** 200 Watts  
**H-Plane Beamwidth:** 7° min.  
**E-Plane Beamwidth:** 85° min.  
**Electrical Downtilt:** 0.5° +/- 0.5°  
**Cross Pol. Discrimination:** 20 dB (0° - 90°)  
 28 dB (90° - 135°)  
 32 dB (135°-180°)  
**Impedance:** 50 ohms nominal  
**Termination:** 7/16 DIN female

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

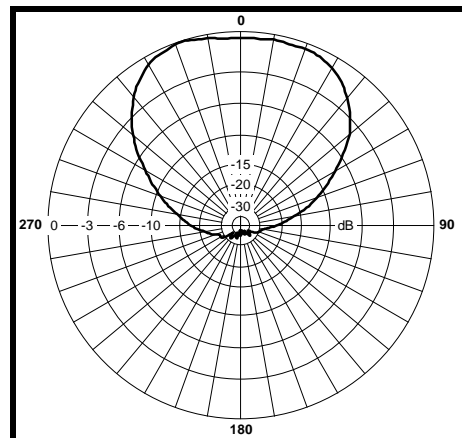
#### Mechanical Specifications

**Length:** 49 in. (1245 mm)  
**Width:** 17 in. (432 mm)  
**Depth:** 5 in. (127 mm)  
**Weight (incl. Clamps):** 23 lb. (10.5 kg)  
**Rated Wind Velocity:** 125 mph (200 km/h)  
**Hor. Thrust at rated wind:** 238 lb. (108 kg)  
**Mechanical Tilt:** 0 - 15 degrees  
**Mounting (O.D.):** 1.0 - 3.5 in. (25.4 - 89 mm)

#### Materials

**Radiating Elements:** Tin plated copper on PCB  
**Reflector:** Irridited aluminum  
**Radome:** Gray UV stabilized plastic  
**Clamps:** Aluminum and HDG steel

E-Plane



H-Plane

