



# LANtenna Series

## TA-2304-4-45-ISM Sector

### 2400-2483 MHz



The TA-2304-4-45-ISM is a vertically polarized high gain 45 degree sectoral antenna. The antenna consists of a printed dipole array enclosed in an aluminum base with a UV stabilized radome for superior weatherability. The antenna is at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

#### Electrical Specifications

**Frequency Range:** 2400-2483 MHz  
**Gain:** 21 dBi  
**VSWR:** 1.5:1 max.  
**Front to Back Ratio:** 30 dB  
**Polarization:** Vertical  
**Power Rating:** 100 Watts  
**H-Plane Beamwidth:** 45 degrees  
**E-Plane Beamwidth:** 3.7 degrees  
**Cross Pol. Discrimination:** 20 dB min.  
**Impedance:** 50 ohms nominal  
**Termination:** N female

#### Mechanical Specifications

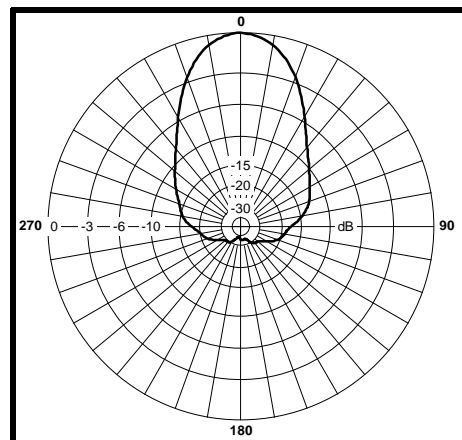
**Length:** 71 in. (1803 mm)  
**Width:** 6.5 in. (165 mm)  
**Depth:** 4.6 in. (117 mm)  
**Weight (incl. Clamps):** 12 lb. (5.5 kg)  
**Rated Wind Velocity:** 125 mph (200 km/h)  
**Hor. Thrust at rated wind:** 153 lb. (69 kg)  
**Mechanical Tilt:** 0 - 10 degrees (optional)  
**Mounting (O.D.):** 0.75 - 3.0 in. (19 - 76 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



E-Plane

