

## TA-2504-8-90ET Sector

The TA-2504-8-90ET is a medium-gain vertically polarized 90 degree sectoral antenna with manually adjustable electrical downtilt. The unit consists of a linear dipole array with fixed side panels to achieve azimuth beamwidth control, along with an integrated phase shifter to provide electrical tilt adjustment in the field. The Radiating elements are protected by a weatherproof UV stabilized radome for long term operation under severe weather conditions. The elements are further placed at DC ground to aid in lightning protection and prevent static buildup.

### Electrical Specifications

**Frequency Range:** 2500-2700 Mhz

**Gain:** 14.5 +/- 0.5 dBi

**VSWR:** 1.5:1 max.

**Polarization:** Vertical

**Power:** 200 Watts

**Azimuth Beamwidth:** 90 degrees

**Elevation Beamwidth:** 7.5 degrees

**Front to Back Ratio:** 25 dB min.

**Cross Pol. Discrimination:** 30 dB min.

**Electrical Beamtilt:** 0 - 8 degrees adjustable

**Null Fill:** T.B.D.

**Port to Port Isolation:** N/A

**3rd Order I.M.( 2x20W):** N/A

**Axial Ratio:** N/A

**Impedance:** 50 ohms nominal

**Termination:** N female

### Mechanical Specifications

**Length:** 36.4 in. (925 mm)

**Diameter:** N/A

**Width:** 5.5 in. (140 mm)

**Depth:** 4.0 in. (102 mm)

**Weight:** 12 lb. (5.4 kg) including clamps

**Rated Wind Velocity:** 125 mph (200 km/h)

**Horizontal Thrust at rated wind:** 89 lb. (40.4 kg)

**with radome:** N/A

**Mechanical Tilt:** 0 - 15 degrees

**Mounting Pipe:** 1.90 - 4.5 in. (48 - 114 mm)

### Material Specifications

**Radiating Elements:** Plated copper on PCB

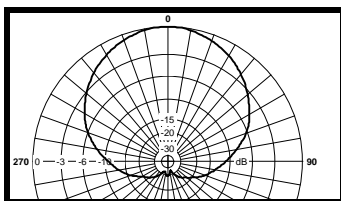
**Reflector:** Irridited aluminum

**Radome:** Gray UV stabilized ASA

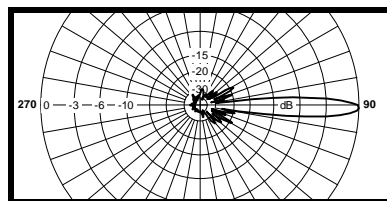
**Mounting Hardware:** Aluminum, EDZ and HDG Steel

### Radiation Patterns/Masks

H-Plane



E-Plane T0



E-Plane T8

