The TA-2504-8-90 is a medium-gain vertically polarized 90 degree sectoral antenna. The unit consists of a linear dipole array with fixed side panels to achieve azimuth beamwidth control. 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**

- **Freq Range:** 2500-2700 MHz
- **Gain:** 15.5 +/- 0.5 dBi
- **VSWR:** 1.5:1 max.
- **Front Back:** 25 dB min.
- **Pol:** Vertical
- **Power:** 200 watts
- **H Plane BW:** 90 degrees
- **E Plane BW:** 8 degrees
- **Electrical Downtilt:** 0 degrees
- **X Pol:** 30 dB typ., 28 dB min.
- **Imp:** 50 ohms nominal
- **Termination:** N female
- **Global Gain:** 15.5

**Mechanical Specifications**

- **Length:** 36.4 in. (925 mm)
- **Width:** 5.5 in. (140 mm)
- **Depth:** 3.5 in. (89 mm)
- **Weight:** 9 lb. (4.1 kg)
- **Rated Wind Vel:** 125 mph (200 km/h)
- **Hor Thrust:** 89 lb. (40.4 kg)
- **Mech tilt:** 0 - 10 degrees
- **Mounting Pipe:** 0.75 - 3.0 in. (48 - 114 mm), 4.5 in. Optional

**Material Specifications**

- **Radiating Elements:** Plated copper on PCB
- **Reflector:** Irridited aluminum
- **Radome:** Gray UV stabilized ASA
- **Clamps:** Aluminum, EDZ and HDG Steel

**Antenna Patterns**