

## TA-803-45 Sector

806-896, 824-896, 890-960 MHz



The TA-803-45 sector is a fixed pattern version of the TA-803 adjustable sector. It is enclosed in an aluminum base and has an ASA UV stabilized radome for superior performance. Extremely low side lobes and up to 15 degrees of mechanical downtilt make this antenna very useful for narrow coverage applications such as CDMA systems where interference between sites can be a particular problem.

### Electrical Specifications

**Frequency Range:** 806-896, 824-896, 890-960 MHz  
**Gain:** 14 dBd  
**VSWR:** 1.5:1 max. 1.35:1 typical  
**Front to Back Ratio:** 30 dB min.  
**Polarization:** Vertical  
**Power Rating:** 500 Watts  
**H-Plane Beamwidth:** 45 degrees  
**E-Plane Beamwidth:** 18 degrees  
**Electrical Downtilt:** 0°, 4°, 6°, 8°, 10°, 18°  
**Cross Pol. Discrimination:** 20 dB min.  
**Impedance:** 50 ohms nominal  
**Termination:** N female (7/16 optional)

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

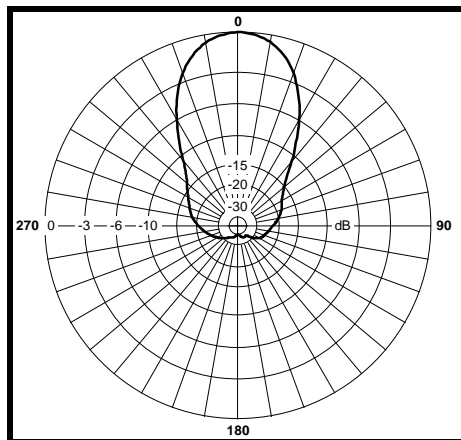
### Mechanical Specifications

**Length:** 48 in. (1220 mm)  
**Width:** 19 in. (483 mm)  
**Depth:** 8 in. (203 mm)  
**Weight (incl. Clamps):** 36 lb. (16.3 kg)  
**Rated Wind Velocity:** 125 mph (200 km/h)  
**Hor. Thrust at rated wind:** 396 lb. (180 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

H-Plane



E-Plane

