



SUNCOM 2.4METER KA ANTENNA

Features

- High G/T, excellent pattern characteristics
- Self-aligning aluminum reflector, no field alignment
- Factory feed system testing
- All of steel parts to be processed by hot dipped zinc
- Foundation hardware kit included

- Air or ocean transport packing



Options

- Antenna control system with tracking (Steptrack, Program Tracking and Inclined Orbit Tracking)
- Reflector and feed deicing systems
- ODU Support Kits
- Lightning Rod Kit
- Grounding Kit
- Cable-Mounting Kit
- Turnkey installation and testing
- Non-penetrating mount
- High wind configuration
- Extended Az travel

Notice: For any specialized request please contact Suncom sales office

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ELECTRICAL SPECIFICATION

| | | |
|-----------------------------------|---------------------------|---------------------|
| Type | SCE(KA)240 | |
| Operating Frequency, GHz | Ka Band | |
| | Receive | Transmit |
| | Standard Band 18.3~21.2 | Standard Band 29~30 |
| | Custom band 17.70~21.20 | Custom band 27.5~31 |
| Gain, Mid-band, dBi | 53.6 | 56.6 |
| Polarization | Linear/Circular | |
| XPD (on Axis), dB | 35 | 35 |
| Axial Ratio (Circular-Polarized) | | 1.2 |
| VSWR | 1.3 | 1.3 |
| Antenna Noise Temperature | | |
| 5° Elevation | 150°K | |
| 10° Elevation | 125°K | |
| 20° Elevation | 104°K | |
| 40° Elevation | 95°K | |
| -3dB Beam Width, Mid-band | 0.34° | 0.25° |
| Tx. Power Capability | | 100W |
| Feed Interface | WR-42 | WR-28 |
| Feed Insertion Loss | 0.6 | 0.4 |
| Isolation, Tx to Rx, dB | 90 | |
| First Sidelobe | -14 | |
| 90% Peaks under Following Envelop | 29-25log θ (1° ≤ θ < 20°) | |

MECHANICAL SPECIFICATION

| | |
|------------------------|---------------------------|
| Antenna Diameter | 2.4 m |
| Antenna Type | Ring Focus |
| Mount Type | El. over Az. |
| Surface Accuracy (RMS) | ≤ 0.2mm |
| Antenna Pointing Range | |
| Azimuth | 0°~360°, ±10°(Continuous) |
| Elevation | 0°~90°(Continuous) |
| Polarization | 360°(Continuous) |
| Drive Mode | Manual or Motorized |

ENVIRONMENTAL SPECIFICATION

| | |
|--------------------|---------------------------------|
| Operational Wind | 72km/h Gusting to 97km/h |
| Survival Wind | 216km/h |
| Temperature | -40°C ~ + 60°C |
| Relative Humidity | 100% |
| Solar Radiation | 1135Kcal/ h/ m ² |
| Seismic (Survival) | 0.3g (H), 0.15g (V) |
| Ice Loading | 13mm Operational; 25mm Survival |