

SUNCOM 6.2METER DBS AND KA BAND ANTENNA

Features

- Meets or exceeds ITU-RS 580-5 requirements
- 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
- 2-port or 4-port Linear/Circular Feed
- Field changeable feed system, switchable circular to linear C-band
- Foundation hardware kit included
- Air or ocean transport packing



Options

- Specialized feed systems (e.g extended ,multi-band, Ka Band, DBS band)
- 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 | 620DBS | | SCE(KA)620 | |
|-----------------------------------|---|-----------|---|----------|
| Operating Frequency, GHz | DBS-Band | | KA-Band | |
| | Receive | Transmit | Receive | Transmit |
| | 10.7~12.75 | 17.3~18.4 | 17.7~21.2 | 27.5~31 |
| Gain, Mid-band, dBi | 55.4 | 59.4 | 59.5 | 62.8 |
| Polarization | Linear | | Linear/Circular | |
| XPD (on Axis), dB | 35 | 35 | 35 | 35 |
| XPD across 1dB Beam Width, dB | 33 | 33 | 33 | 33 |
| VSWR | 1.25 | 1.25 | 1.25 | 1.25 |
| Antenna Noise Temperature | | | | |
| 10° Elevation | 50°K | | 161°K | |
| 30° Elevation | 39°K | | 130°K | |
| 50° Elevation | 36°K | | 110°K | |
| -3dB Beam Width, Mid-band | 0.27° | 0.23° | 0.16° | 0.11° |
| Typical G/T (EI> 10°) | 34.4dB/K (70° LNA) | | 35.5dB/K (120° LNA) | |
| Tx. Power Capability, KW | | 5 | 0.4 | 0.35 |
| Feed Interface | WR-75 | WR-62 | WR-42 | WR-28 |
| Feed Insertion Loss | 0.25 | 0.2 | 0.25 | 0.2 |
| Isolation, Tx to Rx, dB | 90 | | 85 | |
| First Sidelobe | -14 | | -14 | |
| 90% Peaks under Following Envelop | 29-25log θ (1° ≤ θ < 20°) | | 29-25log θ (1° ≤ θ < 20°) | |

MECHANICAL SPECIFICATION

| | |
|------------------------|-------------------------|
| Antenna Diameter | 6.2 m |
| Antenna Type | Cassegrain |
| Mount Type | EI. over Az. |
| Surface Accuracy (RMS) | ≤ 0.5mm |
| Antenna Pointing Range | |
| Azimuth | ±90°, ±60° (Continuous) |
| Elevation | 5°~90° (Continuous) |
| Polarization | 180° (Continuous) |
| Drive Mode | Manual or Motorized |
| Motor Drive System | |
| Azimuth Travel Rate | 0.1° /S (0.02° /S) |
| Elevation Travel Rate | 0.1° /S (0.02° /S) |
| Polarization | 1° /S |

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 |