SUNCOM 13M ANTENNA

Features

- Meets or exceeds ITU-RS 580-5 and INTELSAT 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

13m antenna installed in China

- 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, 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
- High wind configuration
- Extended Az travel

For any specialized request please contact Suncom sales office

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ELECTRICAL SPECIFICATION

Type	1300FC		1300FK	
Operating Frequency, GHz	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
	3.4～4.2	5.85～6.725	10.95～12.75	13.75～14.5
Gain, Mid-band, dBi	53.4	57.2	62.57	63.57
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35	35	35	35
XPD across 1dB Beam Width, Db	33	33	33	33
Axial Ratio (Circular-Polarized) 2 port/4 port	1.30/1.06	1.09/1.06		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature 10° Elevation 20° Elevation 40° Elevation	 46°K 36°K 31°K		 57°K 47°K 43°K	
-3dB Beam Width, Mid-band	0.379°	0.249°	0.122°	0.109°
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss	0.2/0.25	0.2/0.25	0.25/0.35	0.25/0.4
Isolation, Tx to Rx, dB	90		85	
First Sidelobe 90% Peaks under Following Envelop	Meet with ITU-RS 580-5 and INTELSAT			

MECHANICAL SPECIFICATION

Antenna Diameter	13 m
Antenna Type	Cassegrain
Mount Type	El. over Az.
Surface Accuracy (RMS)	≤ 0.5mm
Antenna Pointing Range Azimuth Elevation Polarization	 180° (in two 100° overlapped sectors) 5°～90°(Continuous) 180°(Continuous)
Drive Mode	Motorized
Motor Drive System Azimuth Travel Rate Elevation Travel Rate Polarization	 0.02° /S (0.15° /S) 0.02° /S (0.15° /S) 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