



## SUNCOM 5.3METER 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
- 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	530FC		530FK	
	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
Operating Frequency, GHz	3.4~4.2	5.85~6.725	10.95~12.75	13.75~14.5
Gain, Mid-band, dBi	45.1	48.7	54.5	56
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	32°K		51°K	
30° Elevation	24°K		41°K	
50° Elevation	21°K		38°K	
-3dB Beam Width, Mid-band	0.98°	0.64°	0.31°	0.27°
Typical G/T ( EI > 10° )	27.6dB/K ( 30° LNA )		34.3dB/K ( 70° LNA )	
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss	0.2	0.2	0.25	0.2
Isolation, Tx to Rx, dB	90		85	
First Sidelobe	-14		-14	
90% Peaks under Following Envelop	29-25log $\theta$ ( 1° ≤ $\theta$ < 20° )		29-25log $\theta$ ( 1° ≤ $\theta$ < 20° )	

### MECHANICAL SPECIFICATION

Antenna Diameter	5.3m
Antenna Type	Ring focus
Mount Type	EI. over Az.
Surface Accuracy (RMS)	≤ 0.5mm
Antenna Pointing Range	
Azimuth	±90°, ±60° (Continuous)
Elevation	0° ~ 90° (Continuous)
Polarization	180° (Continuous)
Drive Mode	Manual or Motorized
Motor Drive System	
Azimuth Travel Rate	0.2° /S ( 0.04° /S )
Elevation Travel Rate	0.2° /S ( 0.04° /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 <sup>2</sup>
Seismic (Survival)	0.3g (H), 0.15g (V)
Ice Loading	13mm Operational; 25mm Survival