



## SUNCOM 1.8METER 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

**Notice: For any specialized request please contact Suncom sales office**

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### ELECTRICAL SPECIFICATION

Type	180FC				180FK			
	C-Band				Ku-Band			
Operating Frequency, GHz	Receive		Transmit		Receive		Transmit	
	3.4	4.2	5.85	6.725	10.95	12.75	13.75	14.5
Gain, Mid-band, dBi	35.5		39.5		45.3		46.5	
Polarization	Linear/ Circular				Linear			
XPD (on Axis), dB	35		35		35		35	
Axial Ratio (Circular-Polarized)	1.30		1.09					
VSWR	1.25		1.25		1.25		1.25	
Antenna Noise Temperature								
10° Elevation	39°K				43°K			
30° Elevation	29°K				36°K			
50° Elevation	26°K				32°K			
-3dB Beam Width, Mid-band	2.88°		1.9°		0.87°		0.74°	
Tx. Power Capability, KW			3				1	
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		(1° 20° )		29-25log		(1° 20° )	

### MECHANICAL SPECIFICATION

Antenna Diameter	1.8m
Antenna Type	Offset
Mount Type	El. over Az.
Surface Accuracy (RMS)	0.5mm
Antenna Pointing Range	
Azimuth	0° 360°, ±10 °(Continuous)
Elevation	0° 90°(Continuous)
Polarization	360°(Continuous)
Drive Mode	Manual or Motorized
Materials of reflector	Aluminum alloy
Finish of steel parts	Hot dipped zinc

### 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