

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				
Туре	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 θ (*	l°≪θ<20°)	29-25log θ (1	°≪ θ <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 SPECIFICATI	ON	1		
Operational Wind		72km/h Gusting to 97km/h		
Survival Wind		216km/h		
Temperature		-40°C \sim + 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		