

SUNCOM 1.8M KA BAND ANTENNA

Features

- High G/T, excellent pattern characteristics
- Factory feed system testing
- All of steel parts to be processed by hot dipped zinc
- Foundation hardware kit included
- > Air or ocean transport packing

Options

- Specialized feed systems
- 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				
Туре	SCE(KA)180			
	Receive		Transmit	
Operating Frequency, GHz	Standard Band 18.3~21.2		Standard Band 29~30	
	Custom band 17.7	70~21.20	Custom band 27.5~31	
Gain, Mid-band, dBi	49.1		52.4	
Polarization	Linear/Circular		Circular Circular	
XPD (on Axis), dB	35		35	
Axial Ratio (Circular-Polarized)			1.2	
VSWR	1.3		1.3	
Antenna Noise Temperature 5° Elevation 10° Elevation 20° Elevation 40° Elevation	160°K 130°K 105°K 92°K			
-3dB Beam Width, Mid-band	0.5°		0.32°	
-10dB Beam Width, Mid-band	1.09°		0.65°	
Tx. Power Capability	1100		500W	
Feed Interface	WR42		WR28	
Feed Insertion Loss	0.6		0.4	
Isolation, Tx to Rx, dB			90	
First Sidelobe 90% Peaks under Following Envelop	-14 29-25log θ (1°≤ θ <20°)			
MECHANICAL SPECIFICATION				
Antenna Diameter		1.8m		
Antenna Type			Ringfocus	
Mount Type			El. over Az.	
Surface Accuracy (RMS)			≤ 0.2mm	
Antenna Pointing Range Azimuth		0°∼360°, ±10 °(Continuous)		
Elevation Polarization		0°∼90°(Continuous)		
			360°(Continuous)	
Drive Mode Materials of reflector		Manual or Motorized		
Finish of steel parts		Aluminum alloy Hot dipped zinc		
ENVIRONMENTAL SPECIFICATION	ON		Hot dipped zinc	
Operational Wind		70/2	m/h Gueting to 97km/h	
Survival Wind		72km/h Gusting to 97km/h 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		