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18.5M EARTH STATION ANTENNA



Features

- 18.5m Tx/Rx antenna adopts shaped high precision ring focus design
- Stiffness performance of antenna mount meets the required pointing accuracy of C band and Ku band
- Feedhorn adopts corrugated design, excellent RF specification such as Tx/Rx (2/4 port) feed line of OMT
- The antenna meets requirement of CCIR 580-4

- High accuracy and Strength reflector
- Zinc spraying treatment for surface of mount and structural components
- Faster and easier Installation

Options

- Extended Az travel 360°
- Integrated LNB, LNA system
- Integrated rain blowing /de-icing
- Superwind Resistance
- Low operating temperature
- Linear/Circular

18.5M EARTH STATION ANTENNA SPECIFICATION

ELECTRICAL SPECIFICATION				
Diameter	18.5N	18.5M		
	C-Band			
Operating Frequency, GHz	Receive	Transmit		
	3.625~4.2	5.85~6.425		
Gain, Mid-band, dBi	56.23+20lgf/4	59.58+20lgf/6		
Polarization	Linear/ Ci	Linear/ Circular		



XPD (on Axis), dB	35			
XPD across 1dB Beam Width, dB	33			
VSWR	CP:1.25:1 LP:1.3:1			
Axial Ratio (dB) for CP 2/4 port	1.06	1.06		
Antenna Noise Temperature, 2/4-port feed 10° Elevation	36°K			
-3dB Beam Width	0.26 0.18		0.18	
Tx. Power Capability, KW	5			
Feed Interface	CPR-229G CPR-159G		CPR-159G/137G	
Feed Insertion Loss, dB	0.3		0.3	
Isolation, , dB	Tx to Rx: 85			
	Rx to Rx: CP: 20dB LP: 30dB			
	Tx to Tx(Same Band): CP: 20dB LP: 30dB			
Radiation Pattern:First Sidelobe	CCIR.580-4			
MECHA	ANICAL SPI	ECIFICATION		
Antenna Type	Cassegrain antenna			
Antenna Pedestal Type	Kingpost Pedestal/Rotation Pedestal			
Azimuth	170deg continuous (w.r.t true south)			
Elevation	5 to 90deg			
Finishes				
Reflector Surface	Aluminum panels with high-diffusing white paint			
Pedestal & Back Structure	Hot-dipped Galvanized			
Surface Accuracy (RMS)	0.7mm			
Antenna Drive	Motorized			
ENVIRO	NMENTAL S	PECIFICATION		
Operational Wind		72km/h Gusting to 97km/h		
Survival Wind	200km/h			
Temperature	- 45°C ∼ + 60°C			
Relative Humidity	100%			
Solar Radiation	1135Kcal/ h/ m2			
Seismic (Survival)	0.3g (H), 0.15g (V)			
Rain	Up to 100mm/h operational and survival			
Radial Ice(Survival)	25mm on all surface			
Shock and Vibration	As encounter	As encountered during shipment by commercial air, sea, or truck		
Corrosive atmosphere	As encountered in coastal regions and/or heavily industrialized areas			