9.0m Ring-focus C-band & Ku-band TX & RX antenna

Features:

- Aluminum major reflector with high precision, using aluminum rod to stretch blank and then rivet them to form the reflector.
- Subreflector and corrugating feed and waveguide components which are precisely processed by numerically controlled machines.
- Column type seat and Truss type frame with high stiffness.
- Optional C Band and Ku Band.
- Auto control possesses electric equivalent angle display and automatic tracking device.
- Advanced surface painting techniques enable the device with high anticorrosive and antirust capabilities.
- Customizable upon user' needs

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Description:

SPECIFICATIONS	C-RECEIVE	C-TRANSMIT	Ku-RECEIVE	Ku-TRANSMIT
Frequency (GHz)	3.625-4.2	5.85-6.425	12.25-12.75	14-14.5
Typical Gain (dBi)	49.79	53.38	59.56	60.35
VSWR	1.25:1			
Beamwidth: -3dB	0.532°	0.352°	0.173°	0.158°
-15dB	1.064°	0.7042°	0.346°	0.315°
Antenna Noise Temperature(°K)	2/4Port Feed		2/4Port Feed	
10°Elevation	34°k		57°k	
20°Elevation	26°k		47°k	
40°Elevation	23°k		43°k	
Power Handing Capability		5KW/Port		1KW/Port
Feed interface	CPR-229G	CPR-137G	BJ120	
Feed Insertion Loss	0.25/0.3dB	0.20dB	0.3/0.40dB	
TX - RX	≥85dB		≥85dB	
RX-RX, TX-TX linear	30dB		30dB	
Cross Polarization Isolation (on axis)	≥35dB		≥35dB	
Sidelobes	CCIR.580-4			
MECHANICAL SPECIFICATIONS				
Antenna Optics	Ring-focus antenna			
Azimuth Travel	0°-170°			
Elevation Travel	0°to 90			
Elevation/Azimuth Axis Drive Rates	0.01°/S-0.03°/S			
Polarization Travel Rate	±45°			
Surface Accuracy	0.5mm(R.M.S)			
ENVIRONMENTAL SPECIFICATIONS				
Operational Winds	45mi/h(72km/h) gusts to 60mi/h(97km/h)			
Survival Winds	125mi/h(200km/h)			
Ambient Temperature	-40° to 50°			
Relative humidity	10%- 100%			
Seismic (Survival)	0.3G ' s horizontal 0.15G ' s vertical			