



4.5m 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.
- The antenna has Optional C Band, Ku Band and auto control; it also 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's 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	10.95-12.75	13.75-14.5
Typical Gain dBi)	43.64	47.22	52.94	54.25
VSWR	1.25:1	1.25:1	1.25:1	1.25:1
Beamwidth:-3dB	1.08°	0.715°	0.37°	0.318°
-15dB	2.16°	1.43°	0.741°	0.637°
Antenna Noise Temperature (°K)	2Port Feed		2Port Feed	
10°Elevation	36		60	
20°Elevation	27		50	
40°Elevation	24		44	
Power Handling Capability		5KW/Port		1KW/Port
Feed interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss	0.25dB	0.2dB	0.3dB/0.4dB	0.25dB
TX - RX	≥85dB	≥85dB	≥85dB	≥85dB
Cross Polarization Isolation (on axis)	≥35dB	≥35dB	≥35dB	≥35dB
Sidelobes	CCIR.580-4			
MECHANICAL SPECIFICATIONS				
Azimuth Travel			±65°	
Elevation Travel			0° to 90	
Surface Accuracy			0.5mm(R.M.S)	
Operational Winds			45mi/h(72km/h) gusts to 60mi/h(97km/h)	
Survival Winds			125mi/h(200km/h)	
Ambient Temperature			-45° to 60°	
Relative humidity			0% to 100%	
Seismic (Survival)			0.3G 's horizontal 0.15G 's vertical	