



Transponder Capacity
Global Communication Networks
High-speed Broadband
Satellite - Wireless - Fiber

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15.0M RING FOCUS RO & Tx/Rx ANTENNA

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SPECIFICATIONS		C- RECEIVE	C-TRANSMIT	Ku- RECEIVE	Ku- TRANSMIT
Frequency GHz)		3.625-4.2	5.85-6.425	10.95- 12.75	14-14.5
Typical Gain (dBi)		54.4	57.8	63.6	64.9
VSWR		1.25•1	1.25•1	1.25•1	1.25•1
Beamwidth:-3dB		0.33	0.22	0.11	0.09
-5dB		0.67	0.45	0.22	0.19
Antenna Noise Temperature (K)	2/4 Port Feed			2/4 Port Feed	
	2/4			2/4	
10 Elevation	35/40			60/66	
20 Elevation	27/34			50/56	
40 Elevation	34/30			44/50	
Power Handing Capability			1Kw/port		
Feed Interface		CRP-229G	CRP- 159GG/137G		WR-75
Feed Insertion Loss (dB)		0.15/0.2	0.2	0.4/0.45	0.4

Port-port isolation (dB)					
Tx-Rx		85	85		
Rx-Rx,Tx-Tx Linear		30	30	30	30
Tx-Tx•Rx-Rx Linear		21	21		
Cross Polarization Isolation (dB)		35	35	35	35
			0.5		
Axial ratio, dB (Ratio)		0.5			
Sidelobes		CCLR.580• 2			
MECHANICAL SPECIFICATIONS					
Azimuth Travel		90			
Elevation Travel		0 to 90			
Installation Hardware					
Polarization Travel Rate		1/s			
Surface Accuracy		0.5mm			
Finish		White paint			
ENVIRONMENTAL SPECIFICATIONS		45mi/h (2km/h) thrusters			
Operational Winds		To60mi/h (97km/h)			
		125mi/h (200km/h)			
Survival Winds		-45 to 60			

Ambient Temperature		10% to 98%			
Relative Humidity		0.3G's horizontal			
Seismic (Survival)		0.15G's vertical			

15m Antenna, PERFORMANCE SPECIFICATIONS

The 11 Meter C-band and Ku-band antennas offer superior performance for receive only and satellite communication Tx/Rx applications.

These antennas meet the requirements for 2 satellite spacing per FCC Docket 81-704 and INTELSAT approvals.

••Options:

Two port, three port, four port Rx/Tx linear or/and circular polarized feeds

Manual or motorization azimuth, elevation and polarization drive systems with controls and readouts.