



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

Mike Termondt
Phone: 1-805-649-1384
Mobile: 1-805.794-3970
Fax: 1-805-500-4328

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3.7M Ring Focus 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)		42	45.2	50.9	52.5
VSWR		1.25•1	1.25•1	1.25•1	1.25•1
Beamwidth:-3dB		1.32°	0.86°	0.47°	0.38°
-15dB		2.75°	1.73°	0.91°	0.75°
Antenna Noise Temperature (K)	2/4 Port Feed			2/4 Port Feed	
10 Elevation		36		50	
20 Elevation		30		44	
40 Elevation		25		38	
Power Handling Capability			5Kw/port		1Kw/port
Feed Interface		CRP-229G	CRP-159GG/137G		WR-75
Feed Insertion Loss (dB)		0.15	0.2	0.25	0.25
Port-port isolation (dB)					
Tx-Rx			85		
Cross Polarization Isolation (dB)					
	(0dB)	35	35	35	35
	(1dB)	33	33	33	33
Axial ratio, dB (Ratio)		0.5	0.5		
Sidelobes		CCLR.580			
MECHANICAL SPECIFICATIONS					
Azimuth Travel		±60°			
Elevation Travel		5°to 90°			
Installation Hardware					
Surface Accuracy		0.5mm			
Finish		White paint			
ENVIRONMENTAL SPECIFICATIONS					
Operational Winds		45mi/h(72km/h) thrusts			
		To60mi/h(97km/h)			
Survival Winds		125mi/h(200km/h)			
Ambient Temperature		-45° to 60°			

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