

# GLOBAL STAR 4.8M RING FOCUS ESA SPECIFICATIONS

No.	SPECIFICATIONS		C-RECEIVE	C-TRANSMIT	Ku-RECFIVE	Ku-TRANSMIT
1	Frequency (GHz)		3.625-4.2	5.85-6.425	10.95-12.75	14.0-14.5
2	Typical Gain (dBi)		43.6	47.4	53.3	54.8
3	VSWR		1.25: 1	1.25: 1	1.25: 1	1.25: 1
4	Beam width	-3dB	1.08°	0.715°	0.365	0.305
5	Antenna Noise Temperature(K°)		2/4 port Feed		2/4 pot Feed	
	10°Elevation		30/37° K		60/65° K	
	20°Elevation		24/29° K		50/54° K	
	40°Elevation		20/27° K		44/52° K	
6	Power Handing Capability			5kw / port		1KW/port
7	Feed interface		CPR-229G	CPR-159G/137G	WR-75	WR-75
8	Feed Insert in Loss( dB)		0.15-0.3	0.18-0.25	0.25-0.35	0.25-0.4
9	Port-port Isolation (Tx-Rx)		85 dB	85 dB	85 dB	85 dB
12	Cross Polarization Isolation(on axis)		35 dB	35 dB	35dB	35dB
13	Axial ratio, dB(Ratio)		1.8/0.5dB	1.8/0.5dB		
14	Sidelobes			CCIR-580-4		
MECHANICAL SPECIFICATIONS						
15	Azimuth Travel		±65°			
16	Elevation Travel		0° to 90°			
ENVIRONMENTAL SPECIFICATIONS						
18	Operational winds		72km/h gusting to 97km/h			
19	Survival winds		216 km/h			
20	Ambient Temperature		-45° to 60°			
21	Relative Humidity		10% to 98%			
22	Seismic(Survival)		0.3 G horizontal. 0.15 G vertical			