

## GS 9.0M RING-FOCUS ESA PERFORMANCE 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)		49.9	53.1	59.2	60.4
3	VSWR		1.25: 1	1.25: 1	1.25: 1	1.25: 1
4	Beam width	-3dB	0.74°	0.49°	0.24°	0.20°
		-15dB	1.48°	0.98°	0.49°	0.40°
5	Antenna Noise Temperature(K°)		2/4 port Feed		2/4 port Feed	
	10°Elevation		35° K/40° K		60° K /66° K	
	20°Elevation		27° K /34° K		50° K /56° K	
	40°Elevation		24° K/30° K		44° K /50° K	
6	Power Handing Capability			5kw / port		1KW/port
7	Feed interface		CPR-229G	CPR-159G/137G	WR-75	WR-75
8	Feed Insertion Loss dB		0.15/0.3	0.2	0.4/0.45	0.4
9	Port-port Isolation (Tx-Rx)		35 dB	85 dB	35 dB	85 dB
10	Rx-Rx, Tx-Tx Linear		30 dB	30dB	30dB	30dB
11	Tx-Tx, Rx-Rx Circular		21 dB	21 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	Radiation pattern: First Sidelobe		Meet CCIR.580-4			
MECHANICAL SPECIFICATIONS						
15	Azimuth Travel		±90°			
16	Elevation Travel		0° to 90°			
17	Polarization Travel Rate		1° /s			
18	Surface Accuracy		0.5mm(R.M.S)			
19	Paint Color		White paint			
ENVIRONMENTAL SPECIFICATIONS						
20	Operational winds		45 mi/h(72km/h)gusts to 60 mi/h(97km/h)			
21	Survival winds		125mi/h(200km/h)			
22	Ambient Temperature		-45° to 60°			
23	Relative Humidity		10% to 100%			
24	Seismic(Survival)		0.3 G' s horizontal.			
			0.15 G' s vertical			