

*SM-T3.7R SATELLITE
COMMUNICATION ANTENNA*

SPECIFICATIONS

SUMAN SATELLITE TECHNOLOGY COMPANY

PERFORMANCE SPECIFICATIONS(APERTURE 3.7M)

? R. F SPECIFICATIONS	C-Band		Ku-Band	
	RECEIVE	TRANSMIT	RECEIVE	TRANSMIT
1. Frequency	3.625-4.2GHz *3.4-4.2GHz	5.850-6.425GHz 5.925-6.725GHz	12.25-12.75GHz *10.95-12.75GHz	14.0-14.5GHz
2. Gain at Midband	41.7dB	45.5dB	51.5dB	52.3dB
3. VSWR	1.25:1	1.25:1	1.25:1	1.25:1
4. Beamwidth (-3dB)	1.36°	0.87°	0.44°	0.38°
5. Antenna Noise Temperature				
5° Elevation	40 °K		69 °K	
10° Elevation	29 °K		54 °K	
20° Elevation	26 °K		45 °K	
30° Elevation	21 °K		42 °K	
6. Typical G/T at 20° Elevation, Clear Horizon, 4GHz with 55°K LNA	22.7dB/ °K		29.95dB/ °K (11.85GHz, with 90°K LNA)	
7. Power Handling Capability		5kW		2kW
8. Feed Interface	CPR-229F	CPR-137G	WR-75F	WR-75G
9. Feed Insertion Loss	0.15dB	0.17dB	0.25dB	0.4dB
10. Cross Polarization Isolation				
On Axis	35dB	35dB	35dB	35dB
Within 1 dB Beamwidth	30dB	30dB	30dB	30dB
11. Port to Port Isolation (Tx-Rx with Filter)	≥85dB		≥85dB	
12. Axial Ratio (Circular Polarization) 2 Port Tx/Rx	1.3	1.09	1.3	1.09
13. Sidelobes				
1st sidelobe		-14dB		-14dB
100WD° ≤ θ ≤ 48°		29- 25Log θ dBi		29- 25Log θ dBi
* Provided according to User's requirement				
? MECHANICAL SPECIFICATION	? ENVIRONMENTAL SPECIFICATIONS			