



COMSAT SYSTEMS PVT LTD

An ISO 9001 Company

SPECIFICATIONS



Electrical

Antenna Size	:	7.5 Mtr.	
Antenna Optics	:	Shaped Parabolic Cassegrain system	
Feed Type		Composite, Conical Hornfeed and Sub-Reflector	
Feed Option		2 port / 4/ port Linear /Circular	
Frequency of operation	:	Rx 3625-4200 MHz 4500-4800 10950-12750	Tx 5850-6425 6725-7025 14000-14500
Antenna Gain (Mid Band)±0.5dBi		Rx 47.3 for C Band 48.5 for Ext C Band 56.5 for Ku Band	Tx
Antenna Gain (Mid Band).! 0.5dBi dBi	:	C Band Ext C Band Ku Band	Rx 43.0 44.5 52.5
			Tx 47.0 48.0 54.0
G/T(Typical)	:	C Band Ext C Band Ku Band	24.4 dB/ k with 35 k LNA 25.5 dB/ k with 35 k LNA 32 dB/ k with 70 k LNA
Cross Pol. Discrimination	:	30dB Min	

VSWR	:	1.30:1
Output wave guide flange		CPR 229G & CPR 137 G for C Band / Ext C Band
C Band	:	WR 75 flat for Ku Band
Feed Rotation		Motorised Drive
Power Handling capacity	:	C Band: 2 KW Ku Band: 2 KW
Radiation Pattern	:	As per ITU - R.S.580-5

Mechanical

Azimuth Travel (Optional)	:	110° Continuous and 180° in 2 positions
Elevation Travel	:	5°-90°
Travel Rate	:	4°/min for Az & El
Polarisation Travel	:	Manual +/- 95°
Weight of Reflector	:	500 Kgs
Weight of Mount	:	1000Kgs
Reflector Structure	:	Aluminium Alloy
Mount Structure	:	Steel(Galvanised)
Foundation	:	4 x 4 x 0.5 Mtr

Environmental

Operational Winds	:	70kmph gusting to 100Kmph
Survival Winds	:	200Kmph
Ambient Temperature	:	-15 to+50c
Rain	:	Upto 100 mm/hr

Humidity : 100%
Solar Radiation : 360° BTU/hr/ft² or 1000 K Cal/hr/m²
Atmospheric : As encountered in Marine / Industrial
Conditions

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