

Ø 8.4 M Dual Reflector Antenna

Model No. HGA - 8.4



Option

- Operational band
 - L,S,C,Ku,DBS,Ka,X or DBS Band Antenna System
- Extended C,Ku-Band Antenna System
- Feed Ports, Polarized Linear or Circular
- Tracking System (Step track, Monopulse track, Program track, Orbit Predict track)
- Reflector and Feed deicing System
- Hub Environment (Heating Cooling)
- LNA , LNB, HPA , U/C or D/C System Integration
- Packing for sea and air transport
- Turnkey Installation and Testing
- Full Motion or Limit Motion
- High Power Configuration
- Receive Only or Transmit

Electrical Specifications

Model	HG84CC(L)4		HG84KUL4		HG84DBL(C)4	
Electrical	C-Band Circular (Linear) Pol.		Ku-Band Linear Pol.		DBS-Band Linear (Circular) Pol.	
Item	Rx : 2 Ports	Tx : 2 Ports	Rx : 2 Ports	Tx : 2 Ports	Rx : 2 Ports	Tx : 2 Ports
Frequency (GHz)	3.625 (Ext 3.4) ~ 4.20	5.850 ~ 6.425 (Ext 6.725)	10.70 ~ 12.75	13.75 ~ 14.50	10.70 ~ 12.75	17.30 ~ 18.40
Gain (Mid; dBi)	49.66 (49.56)	53.5 (53.4)	58.21	59.98	58.34	61.55
Typical G/T (20° EL)	31.3 (31.3) dB/K (4 GHz, 30 K LNA)		36.8 dB/K (11.725 GHz, 70 K LNA)		37.26 dB/K (11.725 GHz, 70 K LNA)	
Beam Width (3 dB)	0.57° (0.57°)	0.37° (0.37°)	0.2°	0.16°	0.19°	0.14°
VSWR	1.25		1.3		1.3	
Antenna Noise Temperature						
5° (EL)	53 (51) K	•	91 K	•	82 K	•
10° (EL)	43 (42) K	•	77 K	•	65 K	•
20° (EL)	38 (35) K	•	68 K	•	58 K	•
40° (EL)	35 (33) K	•	63 K	•	52 K	•
Axial Ratio	0.5 dB (N/A)		N/A		N/A	
Cross Polarization Isolation	30.8 dB (35)		35 dB		35 dB	
Port to Port Isolation						
Rx to Rx	-20 (-35) dB	•	-35 dB	•	-35 dB	•
Tx to Tx	•	-20 (-35) dB	•	-35 dB	•	-35 dB
Tx to Rx	-85 dB	•	-85 dB	•	-85 dB	•
Rx to Tx	•	-70 dB	•	-70 dB	•	-75 dB
Side lobe Performance	ITU-R S.580		ITU-R S.580		ITU-R S.580	
Power Handling	10kW CW		2kW CW		2.5kW CW	
RF Specification	H106824/025 (H104729/015)		H112132/R05T035		H111185/025	

* All values are at rear feed flange.

* Typical G/T at 20° elevation with dry clear weather 18°C temperature and clear horizon by using single LNA.