

Ø 13.0 M Dual Reflector Antenna

Model No. HGA - 13



Option

- Operational Band
 - L,S,C,Ku,DBS-Band or EXT C, Ku Band Antenna System
- Limit Motion or Full Motion
- Polarization CP/LP Simultaneous Switching Feed
- Multi Band antenna system (C/Ku,X/Ka)
- Tracking System (Step track, Monopulse track, Program track, Orbit Predict track)
- Reflector and Feed deicing System
- Integrated transmit cross-axis kits
- Rx only, Rx, or Tx Simultaneous System
- Environmental Hub Configuration
- Feed System Linear or Circular Monopulse Coupler X-Band Low PIM Feed Dual Pol. or 4 Pol.
- Integrated LNA (LNB), HPA, U/C, or D/C
- Packing for sea and air transport
- High Power Configuration

Electrical Specifications

Model	HG13EKUL(C)4		HG13CC(L)4		HG13DBL4	
Electrical	Ext Ku-Band Linear (Circular) Pol.		C-Band Circular (Linear) Pol.		DBS-Band Linear Pol.	
Item	Rx : 2 Ports	Tx : 2 Ports	Rx : 2 Ports	Tx : 2 Ports	Rx : 2 Ports	Tx : 2 Ports
Frequency (GHz)	10.70 ~ 12.75	13.75 ~ 14.50	3.625 (Ext 3.4) ~ 4.200	5.850 ~ 6.425 (Ext 6.725)	10.70 ~ 12.75	17.30 ~ 18.40
Gain (Mid: dBi)	62.0 (62.0)	63.6 (63.6)	53.5 (53.4)	57.3 (57.3)	61.7	65.5
Typical G/T (20° EL)	40.7 (40.7) dB/K (11.725 GHz, 70 K LNA)		35.3 (34.7) dB/K (4 GHz, 30 K LNA)		39.8 dB/K (11.725 GHz, 70 K LNA)	
Beam Width (3 dB)	0.13°	0.11°	0.35° (0.35°)	0.24° (0.24°)	0.13°	0.1°
VSWR	1.3		1.25		1.3	
Antenna Noise Temperature						
5° (EL)	89 K	•	54 (58) K	•	101 K	•
10° (EL)	76 K	•	43 (49) K	•	96 K	•
20° (EL)	66 K	•	36 (43) K	•	85 K	•
40° (EL)	62 K	•	34 (41) K	•	81 K	•
Axial Ratio	0.5 dB (N/A)		0.5 dB (N/A)		N/A	
Cross Polarization Isolation	35 dB		30.8 dB (35)		35 dB	
Port to Port Isolation						
Rx to Rx	-35 dB	•	-20 (-35) dB	•	-35 dB	•
Tx to Tx	•	-35 dB	•	-20 (-35) dB	•	-35 dB
Tx to Rx	-85 dB	•	-85 dB	•	-85 dB	•
Rx to Tx	•	-70 dB	•	-85 dB	•	-75 dB
Side lobe Performance	ITU-R S.580		ITU-R S.580		ITU-R S.580	
Power Handling	2kW CW		10kW CW		2.5kW CW	
RF Specification	H112132/R05T035		H106824/025 (H104729/015)			

* 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.