

# Ø 6.4 M Dual Reflector Antenna

**Model No.** HGA - 6.4



### Option

- Operational band
  - L, S, C, X, Ku, Ka, or DBS Band Antenna System
- X-Band Low PIM Antenna System
- Extended C, Ku-Band Antenna System
- Multiband Antenna System
- Deicing Systems (Heating)
- LNA, HPA, U/C or D/C System Integration
- Tracking Antenna System
- Step, Monopulse TT/C, Memory, or Manual track
- Turnkey Installation and Testing
- Packing for Sea and Air Transport
- Full Motion or Limit Motion
- Extended Azimuth Travel Range

## Electrical Specifications

Model	HG64KUL4		HG64CC4		HG64XC2		HG64DBL4		HG64KAC4	
Electrical	Ku-Band Linear Pol.		C-Band Circular Pol.		X-Band Circular Pol.		DBS-Band Linear Pol.		Ka-Band Circular Pol.	
Item	Rx : 2 Ports	Tx : 2 Ports	Rx : 2 Ports	Tx : 2 Ports	Rx : 1 Port	Tx : 1 Port	Rx : 2 Ports	Tx : 2 Ports	Rx : 2 Ports	Tx : 2 Ports
Frequency (GHz)	10.70 ~ 12.75	13.75 ~ 14.50	3.625 ~ 4.200	5.850 ~ 6.425	7.250 ~ 7.750	7.900 ~ 8.400	10.70 ~ 12.75	17.30 ~ 18.40	20.2 ~ 21.2	30.0 ~ 31.0
Gain (Mid; dBi)	55.6	57.6	46.66 (46.76)	50.4 (50.5)	52.2	52.8	55.45	59.21	60.7	63.6
Typical G/T (20° EL)	34.3 dB/K (11.725 GHz, 70 K LNA)		28.60 dB/K (4 GHz, 30 K LNA)		32.6 dB/K (7.5 GHz, 45 K LNA)		34.3 dB/K (11.725 GHz, 70 K LNA)		36.1 dB/K (20.7 GHz, 148 K LNA)	
Beam Width (3 dB)	0.27°	0.22°	0.80°	0.51°	0.41°	0.38°	0.27°	0.18°	0.15°	0.11°
VSWR	1.3		1.25		1.25		1.3		1.3	
Antenna Noise Temperature										
5° (EL)	86 K	•	51 (49) K	•	64 K	•	82 K	•	268 K	•
10° (EL)	75 K	•	43 (41) K	•	52 K	•	69 K	•	256 K	•
20° (EL)	65 K	•	36 (35) K	•	46 K	•	60 K	•	145 K	•
40° (EL)	61 K	•	32 (31) K	•	44 K	•	54 K	•	136 K	•
Axial Ratio	N/A		0.50 dB		0.75 dB		N/A		0.75 dB	
Cross Polarization Isolation	35 dB		30.8 dB (35)		27 dB		35 dB		27dB	
Port to Port Isolation										
Rx to Rx	-35 dB	•	-20 (-35) dB	•	-20 dB	•	-35 dB	•	-20 dB	•
Tx to Tx	•	-35 dB	•	-20 (-35) dB	•	-20 dB	•	-35 dB	•	-20 dB
Tx to Rx	-70 dB	•	-85 dB	•	*-120 dB	•	-85 dB	•	-85 dB	•
Rx to Tx	•	-70 dB	•	85 dB	•	*-120 dB	•	-85 dB	•	-85 dB
Side lobe Performance	ITU-R S.580		ITU-R S.580		ITU-R S.580		ITU-R S.580		ITU-R S.580	
Power Handling	2kW CW		10kW CW		2kW CW		2.5kW CW		1kW CW	
RF Specification	H112132/R05T035		H106824/025		H109855/05		H111185/025		H112900/025/020	

\* 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.

\* X-Band Low PIM Option