

Ø 7.4 M Dual Reflector Antenna

Model No. HGA - 7.4



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), Hub (Heating Cooling)
- 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	HG74KUL4		HG74CC(L)4		HG74XC4	
Electrical	Ku-Band Linear Pol.		C-Band Circular (Linear) Pol.		X-Band (7.3 M) Circular Pol.	
Item	Rx : 2 Ports	Tx : 2 Ports	Rx : 2 Ports	Tx : 2 Ports	Rx : 2 Ports	Tx : 2 Ports
Frequency (GHz)	10.7 ~ 12.75	13.75 ~ 14.50	3.625 ~ 4.200	5.850 ~ 6.425	7.250 ~ 7.750	7.900 ~ 8.400
Gain (Mid; dBi)	56.96	58.8	48.3 (48.2)	51.9 (51.8)	53.06	53.78
Typical G/T (20° EL)	35.65 dB/K (11.20 GHz, 70 K LNA)		30.03 (29.93) dB/K (4.000 GHz, 30 K LNA)		33.46 dB/K (7.500 GHz, 45 K LNA)	
Beam Width (3 dB)	0.23°	0.19°	0.66° (0.66°)	0.43° (0.43°)	0.36°	0.34°
VSWR	1.3		1.25		1.25	
Antenna Noise Temperature						
5° (EL)	87 K	•	52 (50) K	•	63 K	•
10° (EL)	74 K	•	43 (41) K	•	53 K	•
20° (EL)	65 K	•	37 (36) K	•	46 K	•
40° (EL)	61 K	•	35 (34) K	•	43 K	•
Axial Ratio	N/A		0.5 dB (N/A)		0.75 dB	
Cross Polarization Isolation	35 dB				27.3 dB	
Port to Port Isolation						
Rx to Rx	-35 dB	•	-20 (-35) dB	•	-20 dB	•
Tx to Tx	•	-35 dB	•	-20 (-35) dB	•	-20 dB
Tx to Rx	-85 dB	•	-85 dB	•	*-120 dB	•
Rx to Tx	•	-70 dB	•	-70 dB	•	*-120 dB
Side lobe Performance	ITU-R S.580		ITU-R S.580		ITU-R S.580	
Power Handling	2kW CW		10kW CW		2kW CW	
RF Specification	H112132/R05T035		H106824/025		H113095/05	

* 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