

Ø 9.2 M Dual Reflector Antenna

Model No. HGA - 9.2



Option

- Operational Band
 - L,S,C,Ku,DBS,Ka,X or EXT C, Ku Band Antenna System
- Antenna Diameter Ø9M, Ø9.2M, Ø9.7M, or Ø9.8M
- Limit Motion or Full Motion
- Polarization CP/ LP 2 / 4 Ports
- C/Ku Band Simultaneous or Switching
- Multi Band antenna system (X/Ku, X/Ka, C/Ku or C/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
- Integrated LNA (LNB), HPA, U/C, or D/C

Electrical Specifications

Model	HG92KUL4		HG92CC(L)4			HGDBC(L)4		HG92KAC4	
Electrical	Ku-Band Linear Pol.		C-Band Circular (Linear) Pol.			DBS-Band Circular (Linear) Pol.		Ka-BAND Circular Pol.	
Item	Rx : 2 Ports	Tx : 2 Ports	Rx : 2 Ports		Tx : 2 Ports	Rx : 2 Ports	Tx : 2 Ports	Rx : 2 Port	T x : 2Port
Frequency (GHz)	10.70 ~ 12.75	13.75 ~ 14.50	3.625 (Ext 3.425) ~ 4.2		5.850 ~ 6.425 (Ext 6.725)	10.70 ~ 12.75	17.30 ~ 18.40	20.2 ~ 21.2	30.0 ~ 31.0
Gain (Mid: dBi)	58.81	60.59	50.1 (50.0)		53.6 (53.5)	58.9	61.73	63.0/63.4	65.84
Typical G/T (20° EL)	37.22 dB/K (11.725 GHz, 70 K LNA)		31.9 (31.64) dB/K 32.0(LP) (4 GHz, 30 K LNA)			37.89 dB/K (11.725 GHz, 70 K LNA)		39.7/39.87 dB/K (120 K LNA)	
Beam Width (3 dB)	0.19°	0.16°	0.54° (0.54°)		0.36° (0.36°)	0.19°	0.14°	0.11°	0.07°
VSWR	1.3		1.25 (1.25)			1.3		1.3	
Antenna Noise Temperature			(Ext)	(LP)				(FL)	(FH)
5° (EL)	93 K	•	49(55)K	48 K	•	82 K	•	167 K	193 K
10° (EL)	82 K	•	40(45)K	37 K	•	65 K	•	123 K	144 K
20° (EL)	74 K	•	36(40)K	32 K	•	56 K	•	92 K	105 K
40° (EL)	68 K	•	31(38)K	30 K	•	53 K	•	75 K	82 K
Axial Ratio	N/A		0.5 dB (N/A)			0.75 dB (N/A)		0.75 dB	
Cross Polarization Isolation	35 dB		0.5 dB (N/A)			35 dB		27.3 dB	
Port to Port Isolation									
Rx to Rx	-35 dB	•	-20 (-35) dB		•	-35 dB	•	-20 dB	•
Tx to Tx	•	-35 dB	•	•	-20 (-35) dB	•	-35 dB	•	-20 dB
Tx to Rx	-85 dB	•	-85 dB		•	-85 dB	•	-85 dB	•
Rx to Tx	•	-70 dB	•		-70 dB	•	-75 dB	•	-85 dB
Side lobe Performance	ITU-R S.580		ITU-R S.580			ITU-R S.580		ITU-R S.580	
Power Handling	2kW CW		10kW CW			2.5kW CW		1kW CW	
RF Specification	H112132/R05T035		H106824/025 (H104729/015)			H111185/025		H112900/025/02	

* 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