

Diameter 9.2 M Dual Reflector Antenna

Model No. HGA - 9.2



Options

- Operational Band
 - Ku, Ka, L, S, X, C, DBS, EXT C, or EXT
- Antenna Diameter 9 M, 9.2 M, 9.7 M, or 9.8 M
- Limit Motion or Full Motion
- Polarization RHCP or LHCP. Linear V.H. 2 Ports or 4 Ports
- C/Ku: Simultaneous or Switching
- Multiband X/Ku, X/Ka, C/Ku, or C/Ka,
- Tracking System ACU Step track, Monopulse track, TT/C Program track, or Memory track
- Reflector Deicing, Hub (Heating Cooling)
- Rotary Joint or Flexible Cable
- RX only, RX, or TX Simultaneous System
- Hub Configuration Cooling Heating
- 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 : 2 Port |
| Frequency (GHz) | 10.7 ~ 12.75 | 13.75 ~ 14.80 | 3.625 (Ext3.425) ~ 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 (45° 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 (120K LNA) | |
| Beam Width(3 dB) | 0.18° | 0.16° | 0.54°(0.54°) | | 0.36°(0.36°) | | 0.19° | 0.14° | 0.11° | 0.07° |
| VSWR | 1.3 | | 1.3 (1.3) | | | | 1.3 | | 1.3 | |
| Antenna Noise Temperature | | | (Ext) | (LP) | | | | | (FL) | (FH) |
| 5°(EL) | 90 K | • | 49(55)K | 48K | • | 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 | | 30.8 dB (35) | | | | 27.3 dB (35) | | 27.3 dB | |
| Port to Port Isolation | | | | | | | | | | |
| Rx to Rx | 35 dB | • | 20 (35) dB | | • | 35 dB | • | 20 dB | | • |
| TxtoTx | • | 35 dB | • | | 20 (35) dB | • | 35 dB | • | | 20dB |
| Txto Rx | -85 dB | • | -85 dB | | • | -85 dB | • | -85 dB | | • |
| Rx toTx | • | -70 dB | • | | -85 dB | • | -85 dB | • | | -85 dB |
| Side lobe Performance | ITU-R S.580 | | ITU-R S.580 | | | | ITU-R S.580 | | ITU-R S.580 | |
| Max Power | 2KW CW | | 10KW CW | | | | 2KW CW | | 1KW CW | |
| RF Specification | H112132/R05T035 | | H106824/025 (H104729/015) | | | | H111185/025 | | H112900/025/02 | |

※ All feed flange values G/T 20° elevation dry clear weather 18° C temperature no RF interference structure building wood land mountain front area

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Mechanical Specifications

| | |
|--------------------------|---|
| Antenna Diameter | 9.2 M Dual Shaped Surface Reflector Type |
| Antenna Type | Kingpost Pedestal (Option Other Yoke & Tower) |
| Reflector | Shaping formed aluminum panels, galvanized steel back-up structure |
| Pedestal Configuration | Elevation over azimuth pedestal, constructed of galvanized steel |
| Azimuth Travel | ±60° or 180°(3 segments @ 60°) Option Full Motion±270°(Yoke & Tower Type) |
| Elevation Travel | 5 to 90° continuous |
| Polarization Travel | ±95° |
| Azimuth Travel Rate | 0.1°/sec(High: 0.1°~0.01°) Jack Screw |
| Elevation Travel Rate | 0.1°/sec(High: 0.1°~0.01°) Jack Screw |
| Polarization Travel Rate | 0.2°/sec |
| Foundation (L x W x D) | 7 x 7 x 0.6 m |
| Shipping Containers | two 40 ft standard |
| Soil Bearing Pressure | 10,000 kg/m ² |

Environmental Specifications

| | |
|--------------------------|---|
| Survival Wind Loading | 200 km/h |
| Operational Wind Loading | 72 km/h, gusting to 97 km/h |
| Operational Temperature | -20° to + 50°C |
| Survival Temperature | -30° to + 60°C |
| Rain | up to 100 mm/h |
| Relative Humidity | 0 ~ 100 % |
| Solar Radiation | 1000 kcal/h/m ² |
| Ice (Survival) | 2.5 cm on all surfaces or 1.3 cm on all surfaces with 130 km/h wind gusts |
| Shock and Vibration | As encountered during shipment by airplane, ship or truck |
| Atmospheric Conditions | As encountered in coastal regions and/or heavily industrialized areas |

※ Without active elements and components.

Antenna Drawing (unit : mm)

