

6.2 Meter Dual-Reflector Earth Station Antennas System

X- (Military/WGS), C-, or Ka-Band Capabilities

Description

Type: DH 6.2 Meter DR Ku-band Antenna

6.2 Meter Dual-Reflector Earth Station Antenna Reflector incorporates stretch-formed doubly contoured panels with matched radials and hub for ease of field alignment. The standard designed elevation over azimuth LMA pedestal provides a cost-effective for high stiffness and stability, full orbital arc coverage and fine drive performance, and ensures the pointing accuracy required for Ku-band operation.

RF specifications can meet FCC 25.209, IESS and ITU-RS.580-5, INMARSAT, ASIASAT, INTELSAT, APT and Chinasat, etc.

Key Features

- Wide-band High RF performance, LP adjustable feed
- Galvanized steel parts/ Hot Dipped Galvanized
- Type approval from: Intelsat/Asiasat/APT/Chinasat
- Turning Head LMA El-over Az axis Pedestal Option.
- 130km/h gusts to 200km/h High Operation Wind Option.
- Different frequency ranges from many feed configurations

RF & Antenna Specification	IS	
Ku-band Linear	Receive	Transmit
Frequency, GHz	10.95-12.75	13.75-14.5
Mid-Band Gain, dBi	56.18	57.11
VSWR	1.3:1	1.3:1
3dB Beam Width, deg	0.26	0.23
Noise Temperature		
10 Deg Elevation, K	56	
20 Deg Elevation, K	42	
Typical G/T @ 10 Degrees	34.8	
Port to Port Isolation		
Tx to Rx (same band),dB		85
Tx Power Capability, KW		1
Cross-pol. on Axis, dB	35	35
Insertion Loss, dB	0.30	0.25
Feed Interface	WR-75 CPR	WR-75 CPR
Radiation Pattern Compliance	FCC 25.209, ITU-RS.580-6,	
First sidelobe, dB	≤ -14	
Sidelobe Envelope	32 - 25 log (1 $^\circ \leqslant heta <$ 20 $^\circ $)	

Mechanical Specifications		
Antenna Optics	Ring- focus design	
Refector Aperture	6.2 Meters (20.3 Feet)	
Reflector Panels	16 precision-formed aluminum panels	
Antenna Foundation	Reinforced Concrete Foundation, or	
	Non-penetrating mount (NPM)	
Mount Configuration	Kingpost Pedestal Elevation-over	
	Azimuth axis configuration	
Drive Type	Manual / Motorized jack screw	
Surface Accuracy (RMS)	0.5 mm	
Finishes	Aluminum panels with high-diffusing	
Reflector Surface	white paint	
Pedestal & Reflector	Galvanized steel parts/ Hot Dipped	
Backup Structure	Galvanized After Fabrication Galvanized	
Elevation Travel	5° to 90 ° Continuous,	
Azimuth Travel	\pm 85° or 360° Continuous,	
Pol. Travel	\pm 90°Continuous,	
Environmental Performance		
On another all Win d	45 mph (72 km/h) gusting to 60 mph	
Oneventional Wind	45 mpn (72 km/n) gusting to 60 mpn	
Operational Wind	43 mpin (72 km/h) gasting to 60 mpin (97 km/h)	
Operational Wind Survival Wind		
	(97 km/h)	

Phone: +86 (29) 8881 0979 sales@dolphmicrowave.com - www.dolphmicrowave.com Designed and made in China

.