

11.3 Meter Dual-Reflector Earth Station Antennas System

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

Description

Type: DH 11.3 Meter DR Ku-band Antenna

11.3 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.



- 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 Specifications		
Ku-band Linear	Receive	Transmit
Frequency, GHz	10.95-12.75	13.75-14.5
Mid-Band Gain, dBi	61.4	62.32
VSWR	1.3:1	1.3:1
3dB Beam Width, deg	0.15	0.13
Noise Temperature		
10 Deg Elevation, K	73	
20 Deg Elevation, K	65	
Typical G/T @ 10 Degrees	38.7	
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 $^{\circ} \leqslant \theta <$ 20 $^{\circ}$)	



Mechanical Specifications		
Ring- focus design		
11.3 Meters (37 Feet)		
16 precision-formed aluminum panels		
Reinforced Concrete Foundation, or		
Non-penetrating mount (NPM)		
Kingpost Pedestal Elevation-over		
Azimuth axis configuration		
Manual / Motorized jack screw		
0.5 mm		
Aluminum panels with high-diffusing		
white paint		
Galvanized steel parts/ Hot Dipped		
Galvanized After Fabrication Galvanized		
5° to 90 ° Continuous,		
\pm 85° or 360° Continuous,		
\pm 90°Continuous,		
Environmental Performance		
45 mph (72 km/h) gusting to 60 mph		
(97 km/h)		
125 mph (200 km/h),		
-40° C to +50° C		
0-98%		

