

7.5 Meter Prime Focus Antenna System

L-Band,X-Band (Military/WGS) Option

Description

Type: DH 7.5 Meter PF C/ Ku-band Antenna

7.5 Meter Prime Focus Antenna System delivers exceptional performance for receive only applications for L, X and Ku-band frequencies. This antenna offers a reflector that incorporates precision-formed panels and contoured radials that ensure ease of installation. The pedestals are designed for full orbital arc coverage and are readily adaptable to ground or rooftop installations.

Key Features

- High-Accuracy, Aluminum Draw Die Formed Reflector Panels.
- C/Ku Dual band feed systems, MultiBeam Satellite dish solutions,
- Galvanized steel parts/ Hot Dipped Galvanized
- 130km/h gusts to 200km/h High Operation Wind Option.

RF & Antenna Specifications		
C/Ku-band Linear	Receive	Receive
Frequency, GHz	3.625-4.2	10.95-12.75
Mid-Band Gain, dBi	48.1	58.09
VSWR	1.4:1	1.3:1
3dBBeam Width, deg	0.65	0.21
Noise Temperature		
20 Deg Elevation, K	51	54
30 Deg Elevation, K	47	48
Typical G/T @ 10 Degrees	28.7	35.1
Port to Port Isolation		
Rx to Rx (same band),dB	30	30
Axial ratio,dB	1.5	
Cross-pol on Axis, dB	30	30
Insertion Loss, dB	0.35	0.25
Feed Interface	WR-229 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	Prime focus design	
Refector Aperture	7.5 Meters (24.6Feet)	
Reflector Panels	16 precision-formed aluminum panels	
F/D Ratio	0.4	
Mount Configuration	Kingpost Pedestal Elevation-over Azimuth axis configuration	
Drive Type	Manual / Motorized jack screw	
Surface Accuracy (RMS)	0.5 mm	
Elevation Travel	0° to 90 ° Continuous, Including El Angle Adjustment Mark,	
Azimuth Travel	\pm 85° or 360°Continuous,	
Pol. Travel	\pm 90°Continuous,	
Antenna Foundation	Reinforced Concrete Foundation, or Non-penetrating mount (NPM)	
Shiping Case	5 Case, Seaworthy Packing	
Shipping Weight	4230KG, Total volume: 26.21CBM	
Environmental Performance		
Operational Wind	45 mph (72 km/h) gusting to 60 mph (97 km/h)	
Survival Wind	125 mph (200 km/h),	
Temperature	-40° C to +50° C	
Humidity	0-98%	



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