

- Conform to CCIR 580 and INTELSAT Requirements
- High G/T, Excellent Sidelobe Performance
- Hot-dipped Galvanized Mount
- Switch for C Band Linear and Circular Polarization Feed
- Ring-focus Antenna, C/Ku Band



CE

4.5 Meter KU Band Earth Station Antenna

Model: GA45MKUTXRX

ELECTRICAL SPECIFICATION

ltem		Specification
	KU-Band	
	Receive	Transmit
Operation Frequency, GHz	10.7~12.75	13.75~14.5
Gain, Mid-band, dBi	53.2	54.3
Polarization		Linear
XPD (on Axis), dB	35	35
XPD (across 1dB Beam width),dB	33	33
Axial Ratio(Circular-Polarized), 2-port Feed		
VSWR	1.25	1.25
Antenna Noise Temperature		
10°Elevation	52°K	
20°Elevation	41°K	
40°Elevation	37°K	
-3dB Beam width, Mid-band	0.37°	0.33°
Typical G/T(EL>10°)	32.3dB/°K (70°LNA)	
TX. Power Capability, KW		2
Feed Interface	WR-75	WR-75
Feed Insertion Loss	0.2	0.2
Isolation, TX to Rx,dB		85
First Side lobe	-14	-14
90% Peaks under Following Envelop	29-25logθ(1°≤θ<20°)	29-25logθ(1°≤θ<20°)

MECHANICAL SPECIFICATION

ltem	Specification	
Antenna Diameter	4.5 m	
Antenna Type	Ring Focus	
Mount Type	El. over AZ.	
Surface Accuracy (RMS)	≤ 0.5mm	
Antenna Pointing Range and speed		
Azimuth	Standard type: +75°,+60° (Continuous), 0.05°/s	
	Custom type: 0°~ 360° (Continuous), 0.05°/s	
Elevation	3°~ 90° (Continuous), 0.05°/s	
Polarization	360° (Continuous), 0.1°/s	
Drive Mode	Manual or Motorized	

ENVIRONMENTAL SPECIFICATION

ltem	Specification
Operational Wind	72 km/h Gusting to 97 km/h
Survival Wind	216 km/h
Temperature	-40°C~+60°C
Relative Humidity	100%
Seismic (Survival)	0.3g(H), 0.15g(V)
Ice Loading	13mm Operational; 25mm Survival

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Mechanical Diagram (Unit: inch (mm))

