2.4M X-band Antenna

2.4M X-band Antenna is a rugged, reliable antenna system that will operate in the X-band Antenna System with 7.90 - 8.4GHz Transmit and 7.25 - 7.75GHz Receive. System Includes Reflector, sub-reflector, Az/El mount, OMT, feed and Supports. This system has high efficiency and at the same time successfully withstands the effects of the environment.

SPECIFICATIONS

2.4M X-band Antenna System

Electrical Performance		
Antenna Size	2.4M X-band Antenna	
Frequency(GHz)	Rx	Tx
	Rx: 7.25 -7.75GHz	Tx: 7.90 – 8.40GHz
Antenna Gain at Midband, dBi	43.7dBi	44.4dBi
VSWR	Less than 1.3:1	Less than 1.3:1
Axial Ratio	1.13dB	1.0dB
Antenna Noise Temperature 10deg Elevation 20deg Elevation 30deg Elevation	 38K 33K 29K	
Port to Port Isolation	20dB	20dB
Feed Interface	WR112	WR112
Feed Insertion Loss(dB)	Less than 0.3	
Mechanical Specification		
Antenna Type	Offset / Ring focus	
Surface Accuracy(RMS)	Less than 0.35	
Mount Type	Elevation over Azimuth	
Antenna travel range: Azimuth Elevation	0deg -360deg 0deg -90deg	
Environmental Specification		
Wind loading Operational Survival	 80km/h 200km/h	
Temperature	-40Deg.c to 60Deg.c	
Rain	13mm per hour	
Solar Radiation	360BTU/h/ft^2	

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