

Type 125: 1.2 Rx/Tx Class I Antenna 62-1255401



- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018



RF Performance

T000512

Operating Frequency	Tx. 13.75-14.50 GHz
	Rx. 10.70-12.75 GHz
Polarization.	Linear Orthogonal
Gain (± 0.3 dB)	Tx. 43.3 dBi @ 14.3 GHz
	Rx. 41.8 dBi @ 12.0 GHz
3dB Beamwidth	Tx. 1.2° @ 14.3 GHz
	Rx. 1.5° @ 12.0 GHz
Sidelobe Envelope (Tx, Co-Pol dBi)	1.5° < Θ < 20° 29 - 25 Log Θ dB
	20° < Θ < 26.3° -3.5 dB
	26.3° < Θ < 48° 32-25 Log Θ dB
	48° < Θ < 180° -10 dBi (Typical)
Antenna Cross-Polarization*	 >30 dB within 1 dB Contour
Antenna Noise Temperature	10° EL 45° K
	20° EL 31° K
	30° EL 24° K
VSWR	Tx. 1.3:1 Max
	Rx. 1.5:1 Max
Isolation**(Port to Port)	Tx. 90 dB
	Rx. 40 dB
Feed Interface	Tx. WR75 UBR120 Flange
	Rx. WR75 UBR120 Flange

Mechanical Performance

Reflector Material	Glass Fiber Reinforced Composite
Antenna Optics.	One-Piece Offset Feed Prime Focus
Mount Type.	Elevation over Azimuth
Elevation Adjustment Range	5° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous, $\pm 5^\circ$ Fine Adjustment
Mast Size.	2 7/8" - 3" (73-76) Outside Diameter
Wind Loading.	Operational 72 km/h (45 mph)
	Functional Survival 128 km/h (80 mph)
	Ultimate Survival 200 km/h (125 mph)
Survival Temperature.	-50°C to +80°C
Operational Temperature.	-40°C to +55°C
Humidity	0 to 100% (Condensing)
Atmosphere	Standard Hardware Meets 720 Hours
	Salt Spray Test Requirements (ASTM B-117)
Solar Radiation.	.360 BTU/h/ft2
Shock and Vibration	As Encountered During Shipping and Handling

(All specifications typical)
 (*Eutelsat Approval and Cross-Polarisation Specification apply to Tx band 14.0-14.5GHz only.)
 (** With Global Invacom OMT/Filter)
 2.0kg or 4.5 lb max. weight (For BUC and LNB) 2.2kg or 4.8lb max. weight (For Transceiver)

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