

1.2m Ku RxTx Antenna System 12338



Product Specification

- Stainless steel hardware
- Hot Dip Galvanised and Painted Heavy Duty Mount
- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018



RF Performance

T000510

Effective Aperture	1.2m (47in)	
Operating Frequency	Tx	13.75-14.50 GHz
	Rx	10.70-12.75 GHz
Polarization	Linear**	
Gain (±0.3 dB)	Tx	43.3 dBi @ 14.2 GHz
	Rx	41.1 dBi @ 11.2 GHz
3dB Beamwidth	Tx	1.20° @ 14.3 GHz
	Rx	1.60° @ 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 dB
Antenna Cross-Polarization (on axis)	Tx	>30 dB
	Rx	>30 dB
Antenna Noise Temperature	30° Elev.	57° K
VSWR	1.3:1	
Isolation (Port to Port)	Tx	85 dB typ (80 dB)
	Rx	40 dB typ (35 dB)
Feed Interface	Tx	WR75 UBR120 Flange
	Rx	WR75 UBR120 Flange

Mechanical Performance

Reflector Material	Glass Fiber Reinforced Polyester	
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, ±5° Fine Adjustment	
Mast Pipe Size	Upto 3.5" (88.9mm) Pipe	
Wind Loading	Operational	105 km/h (65 mph)
	Operational Survival	201 km/h (125 mph)
	Survival	240 km/h (150 mph)
Temperature	-50°C to +80°C	
Humidity	0 to 100% (Condensing)	
Atmosphere	Stainless Steel Hardware Meets 1000 Hour	
	Salt Spray Test Requirements (ASTM B-117)	
Solar Radiation	360 BTU/h/ft2	
Shock and Vibration	As Encountered During Shipping and Handling	

*Heavier BUC can be placed underneath the boom arm. (max 4kg at position 1, or 10kg at position 2).

**Circular polarisation or copol options are available and are dependant on feed assembly selection. Antenna microwave performance subject to change dependant on alternative feed assembly selection.

DST-100005