1.2m Ka RxTx Antenna System w/ XRF Transceiver

global skyware
completing the picture

Type 1235815 Antenna Product Specification

- ISO 9001:2015 Certificate Of Registration

ROHS compliant

RF Performance

Ka Band
12358

Effective Aperture		1.2m (47in)
Operating Frequency	Tx	28.00-30.00 GHz
	Rx	17.70-20.20 GHz
Polarization		Circular or Linear
Gain (±0.3 dB)	Tx	49.6 dBi @ 30.0 GHz
	Rx	46.1 dBi @ 20.2 GHz
3dB Beamwidth	Tx	0.6° @ 30.0 GHz
	Rx	0.9° @ 20.2 GHz
Sidelobe Envelope (Tx, Co-Pol dBi)		
	Mainbeam < 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 (within 1 dB b/w)		
	Tx	25 dB
	Rx	22 dB
Antenna Noise Temperature	30° Elev	57° K
VSWR		1.2:1
Isolation (Port to Port)	Tx	90 dB
	Rx	75 dB
Feed Interface	Tx	WR28 Flat Flange
	Rx	WR42 Flat 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, ±3° Fine Adjustment
Mast Pipe Size		2.88”(73mm) or 3.5” (88.9mm) diam.
Wind Loading	Operational	72 km/h (45 mph)
	Survival (no repointing)	128 km/h (80 mph)
	Survival (repoint required)	201 km/h (125 mph)
	Survival (no breakaway)	257 km/h (160 mph)
Temperature		-50°C to +80°C
Humidity		0 to 100% (Condensing)
Atmosphere		Standard Hardware Meets 720 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.

REV 11/20 - 03

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