2.4M C & Ku-Band Rx/Tx Series 1250

Technical Specifications

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Electrical		C-Band Linear	C-Band Circular	Ku-Band
Antenna Size		2.4 M (96 in.)	2.4 M (96 in.)	2.4 M (96 in.)
Operating Frequency (GHz)	Receive Transmit	3.625 - 4.20 GHz 5.85 - 6.425 GHz	3.625 - 4.20 GHz 5.85 - 6.425 GHz	10.95 - 12.75 GHz 13.75 - 14.50 GHz
Midband Gain (+/2dB)	Receive Transmit	38.00 dBi 42.00 dBi	38.00 dBi 42.00 dBi	47.60 dBi 49.20 dBi
Antenna Noise Temperature 10° Elevation 20° Elevation 30° Elevation 40° Elevation		52 K 46 K 45 K 44 K	30 K 23 K 20 K 19 K	44 K 32 K 28 K 27 K
$\begin{array}{l} \text{Sidelobe Envelope, Co-Pol (dBi)} \\ 100\lambda / D < \theta \leq 20^\circ \\ 20^\circ < \theta \leq 26.3^\circ \\ 26.3^\circ < \theta \leq 48^\circ \\ \theta > 48^\circ \end{array}$		29 - 25 Log⊕ dBi -3.5 dBi 32 - 25 Log⊕ dBi -10 dBi (averaged)	29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)	29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)
Cross-Polarization (Linear)		>30 dB on axis	N/A	>30 dB on axis
Axial Ratio (Circular)	Receive Transmit	N/A N/A	1.4 VAR (2.95 dB) 1.3 VAR (2.28 dB)	N/A N/A
VSWR		1.3:1 Max	1.3:1 Max	1.3:1 Max Tx, 1.5:1 Max Rx
Feed Interface	Receive Transmit	CPR 229 F CPR 137 or Type N	CPR 229 F CPR 137 or Type N	WR 75 or Direct Radio Mounting
Mechanical				
Reflector Material		Glass Fiber Reinforced Polyester SMC		
Antenna Optics		Prime Focus, Offset Feed, Two-Piece Divided Along Major Axis		
Mount Type		Elevation over Azimuth		
Mast Pipe Size		6" SCH 40 Pipe (6.63" OD) 1	6.83 cm.	

Elevation Adjustment Range)	5° to 90°, Continuous Fine Adjustment	
Azimuth Adjustment Range		360° Continuous, +/- 5° Fine	
Shipping Specifications		385 lbs. (174 kg.)	
Environmental Performance			
Wind Loading	Operational Survival	50 mph (80 km/h) 125 mph (201 km/h)	
Temperature	Operational Survival	-40° to 140° F (-40° to 60° C) -50° to 160° F (-46° to 71° C)	
Rain	Operational Survival	1/2"/hr 2"/hr	

lce	Operational Survival	 1/2″ radial
Atmospheric Conditions		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Solar Radiation		360 BTU/h/ft2

GENERAL DYNAMICS

SATCOM Technologies

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