3.7M C-Band Rx/Tx Antenna

Series 1374

Technical Specifications

Electrical		Linear	Circular
Antenna Size		3.7 M (144 in.)	3.7 M (144 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
Midband Gain (+ .2dB)	Receive Transmit	40.40 dBi 44.00 dBi	40.20 dBi 44.00 dBi
VSWR		1.3:1 Maximum	1.3:1 Maximum
Pattern Beamwidth (in degrees at midband) -3 dB -15 dB		 Rx 1.4° Tx 1.0° Rx 3.2° Tx 2.2°	 Rx 1.4° Tx 1.0° Rx 3.2° Tx 2.2°
Antenna Noise Temperature 5° Elevetion 10° Elevation 20° Elevation 40° Elevation		 55 K 47 K 42 K 40 K	 58 K 50 K 45 K 43 K
Power Handling		500 Watts	500 Watts
Cross Polarization Isolation On Axis Within 1.0 dB Beamwidth		 > 30 dB > 25 dB	 > 17.7 dB > 17.7 dB
Output Waveguide Interface Flange		Rx WR229 Tx Type N or WR137	Rx WR229 Tx Type N or WR137

Mechanical	
Reflector Material	Glass Fiber Reinforced Polyester SMC
Antenna Optics	8 Pc. Prime Focus, Axisymmetric, f/D = 0.375
Mast Pipe Size	6" SCH 80 Pipe (6.62" OD) 16.83 cm.
Elevation Adjustment Range	10° to 70° Continuous Fine Adjustment (90° Optional)
Azimuth Adjustment Range	360° Continuous
Shipping Specifications Approximate Net Weight Approximate Packaged Weight	 660 lbs. (300 kg.) 735 lbs. (334 kg.) 77" x 80" x 29"

Environmental Performance		
Wind Loading	Operational Survival	45 MPH (72 km/h) 125 mph (201 km/h)
Temperature	Operational	-40° to 140° F (-40° to 60° C)
Rain	Operational	1/2"/Hour
Atmospheric Conditions		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Relative Humidity		0 to 100% Condensing
Solar Radiation		360 BTU/h/ft2