

# 3.0, 3.4 & 3.7M C or Ku-Band Receive Only

## Series 1304-1305, 1344-1345 & 1374-1375

### Technical Specifications

Electrical	Series 1304-1305		Series 1344-1345		Series 1374-1375	
	C-Band	Ku-Band	C-Band	Ku-Band	C-Band	Ku-Band
Antenna Size	3.0M (10 ft.)		3.4M (11 ft.)		3.7M (12 ft.)	
Operating Frequency (GHz)	3.625 - 4.2	10.95 - 12.75	3.625 - 4.2	10.95 - 12.75	3.625 - 4.2	10.95 - 12.75
Midband Gain ( +/- .5dB)	40 dBi	49 dBi	40.2 dBi	49.8 dBi	40.9 dBi	50.7 dBi
3 dB Beamwidth	1.7°	0.6°	1.6°	0.53°	1.45°	0.5°
Antenna Noise Temperature						
20° Elevation	30 K	29 K	29 K	28 K	25 K	23 K
30° Elevation	28 K	26 K	27 K	25 K	23 K	22 K
Feed Interface	CPR 229F	WR 75	CPR 229F	WR 75	CPR 229F	WR 75
First Sidelobe (typical)	-20 dB		-20 dB		-20 dB	
Cross-Pol Isolation (Linear)	>30 dB (on axis)		>30 dB (on axis)		>30 dB (on axis)	
VSWR	1.43:1 Max.		1.43:1 Max.		1.43:1 Max.	
Insertion Loss	0.2 dB Max		0.2 dB Max		0.2 dB Max.	

#### Mechanical

Reflector Material	Eight Segment Glass Fiber Reinforced Polyester SMC		
Antenna Optics	Prime Focus, Axisymmetric		
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 / Polar mount covers any 90° segment of arc		
Declination Corrected Polar Range (1305/1345/1375)	90° arc coverage with 36" actuator		
f/D Ratio/Feed Support	.30/Quad Feed Support	.36/Quad Feed Support	.37/Quad Feed Support
Shipping Specifications	380 lbs. (173 kg.)	520 lbs. ( 234 kg.)	575 lbs. (259 kg.)

#### Environmental Performance

Wind Loading	Operational Survival	45 mph (72 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	1/2" per hour
Ice		-----
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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