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

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

## **Technical Specifications**

Electrical	Series 1304 C-Band	l-1305 Ku-Band	Series 1344 C-Band	1-1345 Ku-Band	Series 1374 C-Band	l-1375 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° Elevation	30 K 28 K	29 K 26 K	29 K 27 K	28 K 25 K	25 K 23 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 a	ixis)	>30 dB (on a	xis))
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	45 mph (72 km/h)
	Survival	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