

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

Series 1303-1305, 1344-1345 & 1374-1375

GENERAL DYNAMICS

SATCOM Technologies

Technical Specifications

Electrical	Series 1304 C-Band	I-1305 Ku-Band	Series 1344 C-Band	1-1345 Ku-Band	Series 1374 C-Band	1-1375 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 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			