## **Specifications**

## Series 1244

•				Series 124
Electrical		C-Band		Ku-Band
		Linear	Circular	
Antenna Size		2.4 M (8 ft.)	2.4 M (8 ft.)	2.4 M (8 ft.)
Operating Frequency	Receive	3.625 - 4.2 GHz	3.625 - 4.2 GHz	10.95 - 12.75 GHz
	Transmit	5.850 - 6.425 GHz	5.850 - 6.425 GHz	14.0 - 14.5 GHz
Midband Gain (± .2dB)	Receive	38.0 dBi	38.0 dBi	47.6 dBi
	Transmit	42.0 dBi	42.0 dBi	49.2 dBi
Antenna Noise Temperati	ıre			
20° elevation		46° K	23° K	32° K
30° elevation		45° K	20° K	28° K
Axial Ratio	Receive	N/A	1.3 VAR (2.28 dB)	N/A
	Transmit	N/A	1.3 VAR (2.28 dB)	N/A
Sidelobe Envelope, Co-P	ol			
1001 /D q £ 20°		29-25 Log q dBi	29-25 Log q dBi	29-25 Log q dBi
20° < q £ 26.3°		-3.5 dBi	-3.5 dBi	-3.5 dBi
26.3° < q £ 48°		32-25 Log q dBi	32-25 Log q dBi	32-25 Log q dBi
q > 48°		-10 dBi (averaged)	-10 dBi (averaged)	-10 dBi (averaged)
VSWR		1.3:1 Max.	1.3:1 Max.	1.3:1 Max.
Cross-Polarization		-30 dB on axis	N/A	-30 dB within B.P.E.
Mechanical				
Reflector Material		Glass fiber reinforced polyester SMC		
Antenna Optics	<u> </u>	Four piece, offset fee	ed, prime focus	
Mount Type		Elevation over azimu	uth	·
EL .: A.I				

Reflector Material	Glass fiber reinforced polyester SMC
Antenna Optics	Four piece, offset feed, prime focus
Mount Type	Elevation over azimuth
Elevation Adjustment Range	5° to 90°, continuous fine adjustment
Azimuth Adjustment Range	360° continuous, ±30° fine adjustment
Mast Pipe Size	6" SCH 40 pipe (6.62" OD) 16.80 cm.

## **Environmental Performance**

Wind Loading	Operational	50 mph (80 km/h)	
	Survival	125 mph (201 km/h)	
Temperature	Operational	-40° to 140° F (-40° to 60° C)	
	Survival	-50° to 160° F (-46° to 71° C)	
Rain	Operational	1/2" /hr	
	Survival	2" /hr	
Ice	Operational		
	Survival	1/2" radial	
Atmospheric Conditions		Salt, pollutants and contaminants as encountered in coastal and	
		industrial areas	
Solar Radiation		360 BTU/h/ft <sup>2</sup>	
Shipping Specifications		484 lbs. (218 kg.)	



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