1.2, 1.8, 2.4, & 3.8 Meter X-Band Antennas

Technical Specifications

Electrical ⁽¹⁾	Series 1134 X-Band	Series 1194 X-Band	Series 1244 X-Band	Series 1383 X-Band	
Antenna Size	1.2 M	1.8 M	2.4 M	3.8 M	
Operating Frequency (GHz) Receive Transmit	7.25 - 7.75 GHz 7.90 - 8.40 GHz				
Midband Gain (+/5dB) / (+/- 2 dB (3.8M)	37.4 dBi 38.1 dBi	40.9 dBi 41.6 dBi	43.7 dBi 44.4 dBi	47.6 dBi 48.3 dBi	
Sidelobe Compliant	DSCS Req.	DSCS Req.	DSCS Req.	DSCS Req.	
Axial Ratio	1.0 dB	1.0 dB	1.0 dB	1.0 dB	
VSWR	1.25:1 Max.	1.25:1 Max.	1.25:1 Max.	1.25:1 Max.	
Antenna Noise Temp (Clear Sky) 10° 20° 30°	50 K 45 K 42 K	43 K 38 K 35 K	38 K 33 K 29 K	60 K 53 K 47 K	
Port to Port Isolation	20dB	20dB	20dB	20dB	

Mechanical	Series 1134 X-Band	Series 1194 X-Band	Series 1244 X-Band	Series 1383 X-Band	
Reflector Material	Glass fiber reinforced polyester SMC				
Antenna Optics	One piece, offset feed, prime focus Four piece, of		Four piece, offse	set feed, prime focus	
Mount Type	Elevation over azimuth				
Elevation Adjustment Range	5° to UII° continuous tino adjustment			12° to 90°, (0° to 15° Inverted)	
Azimuth Adjustment Range	360° continuous, +30° fine adjustment				
Mast Pipe Size	2.5" SCH 40 pipe (2.88" OD)	5" SCH 40 pipe (5.6" OD)	6" SCH 40 Pipe (6.62" OD)	10" SCH 40 pipe (10.75" OD)	

Environmental Performance				
Wind Loading	Operational Survival	50 mph (80 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 Survival	1/2" / hr. 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/ft2		

Contact us at CustomerCareSAT@cpii.com or call us at +1 770-689-2040. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.



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