

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 | 7.25 - 7.75 GHz | 7.25 - 7.75 GHz | 7.25 - 7.75 GHz | 7.25 - 7.75 GHz |
| Transmit | 7.90 - 8.40 GHz | 7.90 - 8.40 GHz | 7.90 - 8.40 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° | 50 K | 43 K | 38 K | 60 K |
| 20° | 45 K | 38 K | 33 K | 53 K |
| 30° | 42 K | 35 K | 29 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, offset feed, prime focus | |
| Mount Type | Elevation over azimuth | | | |
| Elevation Adjustment Range | 5° to 90°, continuous fine 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@cpil.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.



**Satcom & Antenna
Technologies Division**
1700 NE Cable Drive
Conover, NC
USA 28613

tel +1 770-689-2040
1 888-874-7646 (In North America)
1 619-240-8480 (Outside North America)
email CustomerCareSAT@cpil.com
web www.cpii.com

For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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