**EQUIPMENT SPECIFICATIONS**

### Input Characteristics
- Impedance/Ret. Loss: 50Ω/14 dB
- Frequency: 0.95 to 1.95 GHz
- Noise Figure, Max.: 20 dB max gain

### Output Characteristics
- Impedance/Ret. Loss: 50 Ω/14 dB, Mute & UnMute
- Frequency (GHz): BAND1 17.7 to 18.7, BAND2 18.3 to 19.3, BAND3 19.2 to 20.2, BAND4 20.2 to 21.2
- Output Level Range: -15 to 0 dBm
- Output 1 dB comp.: +10 dBm, max gain
- Mute: >60 dB @ 0 dBm output

### Channel Characteristics
- Gain at F<sub>C</sub>: +30 ±3 dB, (+30 to 0 dB variable in 0.5 dB steps)
- Spurious, Inband: S<sub>IG REL</sub> <=-50 dBc in band, -15 to 0 dBm out; S<sub>IG IND</sub>, <55 dBm; Over 17.7 to 21.2 GHz band
- Spurious, Out of band: Intermodulation <5 dBc for two carriers at 4 MHz spacing, each at -5 dBm out
- Frequency Response: ±2 dB, over RF band; ± 0.5 dB, 40 MHz BW
- Frequency Sense: Non-inverting

### LO Characteristics
- LO Frequency: Band Specific
- Frequency Accuracy: ±0.05 ppm max over temp internal reference; ext. ref. input
- 10 MHz level In/Mon: +2 to +8 dBm in; Monitor Output = input level ± 1.0 dB, 50 ohms

### Controls, Indicators
- Gain, Band, 10M Freq.: Gain, band select, and internal 10 MHz frequency via Ethernet M&C or Status/Control Connector
- PLL Alarm: Red LED, External Contact Closure
- Power: Green LED

### Other
- RF Out, RF Mon. Conn.: 2.92mm (40GHz) female, 50Ω
- L-Band Connector: Type N (female), 50Ω
- 10 MHz Connector: SMA (female), 50Ω
- Status/Control Conn.: Multipin MS3112E14-18S Weather Resistant Connector
- Size: 8" Wide X 6" High X 16" Deep Weather Resistant* Enclosure
- Power: 100-240 ±10% VAC, 47 - 63 Hz, 25 watts max./FCI Clipper Series CL1M1102 Weather Resistant Connector

*Weather Resistant enclosures are designed to be water resistant for installation in an outdoor enclosure/antenna hut OR mounted outdoors on an antenna assembly at their specified temperature ranges. They are designed to be located “out in the elements” (water, sleet, snow, etc.) but they are not designed to be “submerged under” water.

If an extended temperature range is required, there is an Extended Temperature option (Option W21: -30°C to +60°C) available at an additional cost. Contact Cross for quote.

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*+0 to +50 degrees C; Specifications subject to change without notice*