M-Band

300 W CW Rack-Mount TWTA

RF Output Power From 6.0 to 18.0 GHz

Provides 250 W of CW power at the flange.

Easy to Use and Versatile

Extensive diagnostic capability. Automatic output power control. Time stamped event log. Automatic filament shutdown. Manual override control. Dual communications interfaces. Continuous RF attenuator adjustment in 0.1 dB steps.

Ruggedly Built

Meets MIL-STD-810E.

Global Applications

Meets International Safety Standard EN61010 and Electromagnetic Compatibility 2014/30/EU.

Worldwide Support

Backed by over 35 years of satellite communications experience, and CPI's worldwide 24-hour customer support network that includes more than 20 regional factory service centers.



Model TE03MI-C 300 watt M-band TWTA for EMC/EMI Test Applications

OPTIONS

- RF Input Attenuator
- Gain Variation Equalizer
- Integral Linearizer
- Mounting Configurations
- Low Gain (remove SSIPA)
- Others Available Upon Request
- Ethernet Interface



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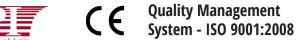
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M-Band

300 W M-Band Rack Mount TWTA Model TE03MI-C Specification 6.0 to 18.0 GHz, 6.5 to 18.0 GHz or 7.5 to 18.0 GHz Frequency **Output Power (min.), TWT** 300 W CW **Output Power (min.), Flange** 250 W CW Bandwidth 12 GHz, 11.5 GHz or 10.5 GHz Gain 53.5 dB typ. at rated power output; 55.5 dB typ. at small signal **RF Level Adjust Range** 0 to 20 dB **Gain Stability** ±0.25 dB/24 hr max. (after 30 minute warmup and at constant drive and temperature) **Gain Variation** 13 dB pk-pk max. (6 dB pk-pk with optional gain variation equalizer) **VSWR** 2.0:1 max. Input Output 2.5:1 typ. Load 2.0:1 max. **Residual AM** -50 dBc below 10 kHz; -20[1.3 + log F (kHz)] dBc, 10 kHz to 500 kHz; -85 dBc above 500 kHz Meets IESS 308/309 with 3 dB margin **Phase Noise Noise and Spurious** -50 dBc typ. excluding harmonics Harmonic Content -5 dBc max. **Prime Power** 100 to 264 VAC single phase, 2 wire, 47 to 63 Hz **Power Consumption** 1900 VA nom. **Inrush Current** 200% **Operating Temperature** -10°C to +50°C (derate by 1.9°C per 1,000 ft. above sea level) **Non-Operating Temperature** -40°C to +70°C **Relative Humidity** 95% non-condensing **Operating Altitude** 10,000 ft above sea level (3,048 m) **Non-Operating Altitude** 50,000 ft above sea level (15,240 m) Vibration MIL-STD-810E, Method 514.4, Procedure 1, Category 1 Shock 10 g, 11 ms half sine **Acoustic Noise** <68 dBA max. at 1 meter **Air Flow** 100 cfm Cooling Forced air, 2.0" clearance required Input RF Connector Type SMA Female WRD-750 7.5 to 18.0 GHz; WRD-650 6.0 to 18 GHz **Output RF Connector** 5.2" H x 19.0" W x 24.0" L (133 x 483 x 610 mm) Dimensions Weight 65 lbs (29.5 kg) nom.





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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