

For EMC/EMI and other instrumentation applications.

Provides a minimum of 250 watts of power at the flange in a 3-rack unit package, across the 6.0 to 18.0 GHz frequency range.

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.

Meets Global Requirements

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

Worldwide Support

Backed by over 40 years of satellite communications experience, and CPI's worldwide 24-hour customer support network that includes more than 20 regional factory service centers.



CPI 300 W M-band TWTA, Model TE03MI-C

OPTIONS:

- RF input attenuator
- Gain variation equalizer
- Integral linearizer
- Mounting configurations
- Low gain (remove SSIPA)
- Ethernet interface
- Others available upon request

Quality Management
System - ISO 9001:2015



| Specification | Model TE03MI-C |
|---|--|
| Frequency | 6.0 to 18.0 GHz, 6.5 to 18.0 GHz or 7.5 to 18.0 GHz |
| Output Power (min.), TWT Output Power (min.), Flange | 300 W CW 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 | Input Output Load |
| | 2.0:1 max. 2.5:1 typ. 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 |
| Phase Noise | Meets IESS 308/309 with 3 dB margin |
| 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 |
| Output RF Connector | WRD-750 7.5 to 18.0 GHz; WRD-650 6.0 to 18 GHz |
| Dimensions | 5.2" H x 19.0" W x 24.0" L (133 x 483 x 610 mm) |
| Weight | 65 lbs (29.5 kg) nom. |



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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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