

## For EMC/EMI and other instrumentation applications.

Provides a minimum of 250 watts of power at the flange in a compact 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 TE03MO-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 TE03MO-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	100% 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 N Female
Output RF Connector	WRD-750 7.5 to 18.0 GHz; WRD-650 6.0 to 18 GHz
Dimensions	10.2" x 12.4" x 22.0" (258 x 315 x 559 mm)
Weight	63 lbs (28.6 kg) nom.



**SMP Division**  
**Satcom Products**  
tel: +1 (669) 275-2744  
email: [satcommarketing@cpii.com](mailto:satcommarketing@cpii.com)  
web: [www.cpii.com/satcom](http://www.cpii.com/satcom)

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.

© 2020 Communications & Power Industries LLC. Company proprietary; use and reproduction is strictly prohibited without written authorization from CPI.