

# 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



## 300 W M-Band Rack Mount TWTA

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.

Distributed by: Reliant EMC LLC, 3311 Lewis Ave, Signal Hill CA 90755, 408-916-5750, [www.reliantemc.com](http://www.reliantemc.com)



Quality Management  
System - ISO 9001:2008

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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