

# 300 W CW Hub-Mount TWTA

## RF Output Power From 6.0 to 18.0 GHz

Provides 265 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 TE03MO-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 Hub Mount TWTA

Specification	Model TE03MO-C	
Frequency	6.0 to 18.0 GHz or 6.5 to 18.0 GHz	7.5 to 18.0 GHz
Output Power (min.), TWT Output Power (min.), Flange	300 W CW 265 W CW	300 W CW 270 W CW
Bandwidth	12.0 or 11.5 GHz	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	2.0:1 max.
	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	
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	-40°C to +50°C (derate by 1.9°C per 1,000 ft. above sea level)	
Non-Operating Temperature	-50°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-650	WRD-750
Dimensions	10.2" H x 12.4" W x 22.0" L (258 x 315 x 559 mm)	
Weight	63 lbs (28.6 kg) nom.	

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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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