

For EMC/EMI and other instrumentation applications. Provides a minimum of up to 45 watts of power at the flange in a 3-rack unit package, across the 26.5 to 40.0 GHz frequency range.



CPI 50 W CW Ka-band TWTAs, Model TE01AI-C

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.

OPTIONS:

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

Quality Management
System - ISO 9001:2015



Specification	CPI Model TE01AI-C, 40/50 W CW Ka-band TWTAs
Frequency	26.5 to 40.0 GHz
Output Power (min.), TWT Output Power (min.), Flange	40 W CW or 50 W CW 35 W CW or 45 W CW
Bandwidth	13.5 GHz
Gain	46 dB typ. at rated power output
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	±6.0 dB max.
VSWR Input Output Load	2.0:1 max. 2.5:1 typ. 2.0:1 max.
Noise and Spurious	-50 dBc typ. excluding harmonics
Prime Power	100 to 264 VAC single phase, 2 wire, 47 to 63 Hz
Power Consumption	800 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	2.92 mm Type K Female
Output RF Connector	WR28
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.



SMP Division
Satcom Products
tel: +1 (669) 275-2744
email: satcommarketing@cpii.com
web: 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.

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