

50 W CW Rack-Mount TWTA

RF Output Power From 26.5 to 40.0 GHz

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



Model TE01AI-C

50 watt Ka-band TWTA
for EMC/EMI Test Applications

OPTIONS

- RF Input Attenuator
- Integral Linearizer
- Mounting Configurations
- Low Gain (remove SSIPA)
- Others Available Upon Request
- Ethernet Interface

50 W Ka-Band Rack Mount TWTA

Specification	Model TE01AI-C
Frequency	26.5 to 40.0 GHz
Output Power (min.), TWT	50 W CW
Output Power (min.), Flange	40 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 dBc max.
VSWR	Input Output Load
	2.0:1 max. 2.5:1 typ. 2.0:1 max. without damage
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	WR-28
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



Quality Management
System - ISO 9001:2015

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. Copyright 2019 by Communications & Power Industries LLC, all rights reserved.

MKT 388, ISSUE 5 dated JUN 2019