Ka-Band

50 W CW Hub-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 2004/108/EC.

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 TE01AO-C

50 watt Ka-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

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50 W K-Band Hub Mount TWTA

Specification	Model TE01AO-C
Frequency	26.5 to 40.0 GHz
Output Power (min.), TWT Output Power (min.), Flange	50 W CW 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	+/-6.0 dB max (+/-3.0 dB max. with gain variation equalizer option)
VSWR Input Output Load	 2.0:1 max 2.5:1 typ. 2.0:1 max. without damage
Harmonic Content	-6 dB 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	600 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	150 cfm
Cooling	Forced air, 2.0” clearance required
Input RF Connector	Type K Female
Output RF Connector	WR-28G
Dimensions	9.6” H x 11.8” W x 20.6” L (244 x 300 x 522 mm)
Weight	49 lbs (22.2 kg) nom.

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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