K-Band

50 W CW Rack-Mount TWTA

RF Output Power From 18.0 to 26.5 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 TE01KI-C

50 watt K-band TWTA
for **EMC/EMI Test, EW and Radar Applications**

OPTIONS

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

Communications & Power Industries

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50 W K-Band Rack Mount TWTA

Specification	Model TE01KI-C
Frequency	18.0 to 26.5 GHz
Output Power (min.), TWT Output Power (min.), Flange	50 W CW 40 W CW
Bandwidth	8.5 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	12 dB pk-pk max. (6 dB pk-pk with optional gain variation equalizer)
VSWR Input Output Load	 1.7:1 typ 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	Type SMA Female
Output RF Connector	WR-42
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.

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CE

Quality Management System - ISO 9001:2008

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