

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 18.0 to 26.5 GHz frequency range.



CPI 40/50 W CW Ka-band TWTA, Model TE01KI-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
- Gain variation equalizer
- Integral linearizer
- Mounting configurations
- Low gain (remove SSIPA)
- Ethernet interface
- Others available upon request

Quality Management
System - ISO 9001:2015



| Specification | CPI Model TE01KI-C, 40/50 W CW Ka-band TWTA |
|---|--|
| Frequency | 18.0 to 26.5 GHz |
| Output Power (min.), TWT Output Power (min.), Flange | 40 W CW or 50 W CW 34 W CW or 44 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. (±6.0 dB pk-pk max. with optional gain variation equalizer) |
| VSWR Input Output Load | 1.7:1 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 | Type SMA Female |
| Output RF Connector | WR42 |
| 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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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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