

For EMC/EMI and other instrumentation applications.

Select from one version which provides 500 W CW at the flange from 2.5 to 7.5 GHz, or another which provides 125 W CW from 2.0 to 2.5 GHz and 370 W CW from 2.5 to 8.0 GHz.

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.



CPI Model TE05SCI-C, 535 W S/C-band TWTA for **EMC/EMI Test Applications**

OPTIONS:

- RF input attenuator
- Gain variation equalizer
- Integral linearizer
- Mounting configurations
- Low gain (remove SSIPA)
- Ethernet interface
- Other options available upon request

Quality Management
System - ISO 9001:2015



Specification		CPI Model TE05SCI-C, 535 W CW Wideband TWTA	
Frequency		2.5 to 7.5 GHz option	2.0 to 8.0 GHz option
Output Power (min.), TWT Output Power (min.), Flange		535 W CW 500 W CW	150 W from 2.0 to 2.5 GHz; 450 W from 2.5 to 8.0 GHz 125 W from 2.0 to 2.5 GHz; 370 W from 2.5 to 8.0 GHz
Bandwidth		5 GHz	6 GHz
Gain		53.5 dB typ. at rated power output; 55.5 dB typ. at small signal	
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		26 dB pk-pk max. (10 dB pk-pk with optional gain variation equalizer)	
VSWR	Input Output Load	2.0:1 max. 2.5:1 typ. 2.0:1 max.	
Residual AM		-50 dBc below 10 kHz; -20[1.3 + log F (kHz)] dBc, 10 kHz to 500 kHz; -85 dBc above 500 kHz	
Noise and Spurious		-50 dBc typ. excluding harmonics	
Harmonic Content		-3 dBc max.	
Prime Power		180 to 264 VAC single phase, 2 wire, 47 to 63 Hz	
Power Consumption		3000 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 N Female	
Output RF Connector		WRD-750 7.5 to 18.0 GHz; WRD-650 6.0 to 18 GHz	
Dimensions		8.7" H x 19.0" W x 24.0" L (221 x 483 x 610 mm)	
Weight		90 lbs (40.9 kg) nom.	