CPI 535 Watt Wideband TWTA

S/C-Band

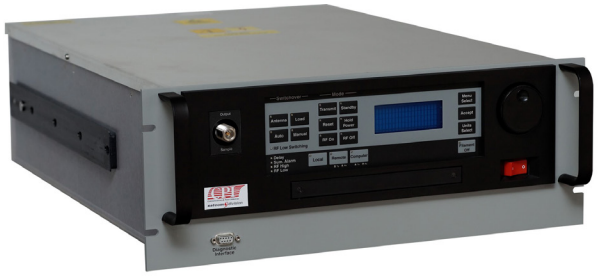
For EMC/EMI and other instrumentation applications.
Select from one version which provides 500 W CW at the flange from 2.5 to 7.5 GHz, or another which provides 125 W CW from 2.0 to 2.5 GHz and 370 W CW from 2.5 to 8.0 GHz.

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

CE

CPI Communications & Power Industries

www.cpii.com/satcom

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.	

Communications & Power Industries

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MKT-385 Revision 4 dated JUL 2020