

535 W CW Rack-Mount TWTA

RF Output Power in S and C-Bands

Select from one version which provides 500 W CW 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.

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 TE05SCI-C

535 watt S/C-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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535 W S/C-Band Rack Mount TWTA

Specification	Model TE05SCI-C	
Frequency	2.5 to 7.5 GHz option	2.0 to 8.0 GHz option
Output Power (min.), TWT	535 W	150 W from 2.0 to 2.5 GHz; 450 W from 2.5 to 8.0 GHz
Output Power (min.), Flange	500 W	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 (10 dB pk-pk with gain variation equalizer option)	
VSWR	Input	2.0:1 max.
	Output	2.5:1 typ.
	Load	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	Type SC Female Standard, Type N Female Optional	
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.	