

250 W and 320 W Touchscreen TWTAs

RF Output Power From 8.0 to 18.0 GHz

5 RU TWTAs provides minimum of 225 W at the flange.

Versatile

Ultra-wideband, automatic fault recycle, user friendly microprocessor-controlled logic with integrated computer interface, digital metering, electronic variable attenuation, soft-fail when subjected to extreme load SWR conditions, quiet operation for laboratory environment. An integral solid state pre-amplifier and IEEE interface are included as standard features.

Global Applications

230 VAC operation. Meets International Safety Standard EN-60215 and Electromagnetic Compatibility 2014/30/EU.

Worldwide Support

Modular design and built-in fault diagnostic capability, backed by CPI's worldwide 24-hour customer support network that includes more than twenty regional factory service centers.



Model TZM-6963J1

250 watt and 320 W S/C-band Touchscreen TWTAs for EMC/EMI Test Applications

OPTIONS

- Input isolator (-1 dB gain)
- Remote control panel
- 115 VAC external step-up transformer

250 W and 320 W M-Band TWTAs

Specification	Model TZM-6963J1	
Frequency	8.0 to 18.0 GHz	
Output Power (min.), TWT	320 W CW	290 W CW
Output Power (min.), Flange	250 W CW	225 W CW
Bandwidth	10.0 GHz	
Gain	53.5 dB min. at rated power output; 53.5 dB typ. at small signal	
RF Level Adjust Range	0 to 20 dB continuous	
Gain Stability	±0.25 dB/24 hr max. (after 30 minute warmup and at constant drive and temperature)	
Gain Variation	12 dB pk-pk over 6.0 GHz bandwidth, typ.	
VSWR	Input	2.5:1 typ, 1.5:1 max. (with optional input isolator)
	Output	2.5:1 typ.
	Load	1.5:1 max. full spec compliance; 2.0:1 max. continuous operation; any value without damage
Residual AM	-50 dBc below 10 kHz; -20[1.3 + log F (kHz)] dBc, 10 kHz to 500 kHz; -85 dBc above 500 kHz	
Phase Noise	Meets IESS 308/309	
Noise and Spurious	-50 dBc typ. excluding harmonics	
Harmonic Content	-3 dBc typ. at lower band edge	
Prime Power	220 to 240 VAC single phase ±10%, 47 to 63 Hz	
Radiated Immunity	10 V/m (for higher immunity levels, contact CPI)	
Power Consumption	2.6 kVA typ, 3.0 kVA max.	
Inrush Current	200%	
Ambient Temperature	-10°C to +40°C operating; -54°C to +71°C non-operating	
Relative Humidity	95% non-condensing	
Operating Altitude	10,000 ft above sea level (3,048 m), with standard adiabatic de-rating of 2° per 1,000 feet; 40,000 ft non-operating	
Shock and Vibration	Designed to meet conditions normally encountered in the laboratory	
Acoustic Noise	65 dBA one meter from front panel	
Cooling	Forced air with integral blower. Rear air intake and exhaust	
Input RF Connector	Type N Female	
Output RF Connector	Type N Female	
RF Power Monitors	Type N Female, -50 dB nominal	
M&C Interface	GPIB, RJ45 Ethernet, includes embedded GUI control (RS422/485, RS232 serial interface optional)	
USB Port	Download/Upload software, logs	
Dimensions	19" W x 7.0" H x 24.0" L (483 x 222 x 661 mm)	
Weight	110 lbs (50 kg) nom.	
Safety	EN-60215	

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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. Copyright 2019 by Communications & Power Industries LLC, all rights reserved

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