

For EMC/EMI and other instrumentation applications.

Provides a minimum of 100 watts of power at the flange, across the 26.5 to 40.0 GHz frequency range.

Simple to Operate

User-friendly microprocessor-controlled logic with integrated RS422/485 serial, GPIB or Ethernet interface. Digital metering is standard.

Easy to Maintain

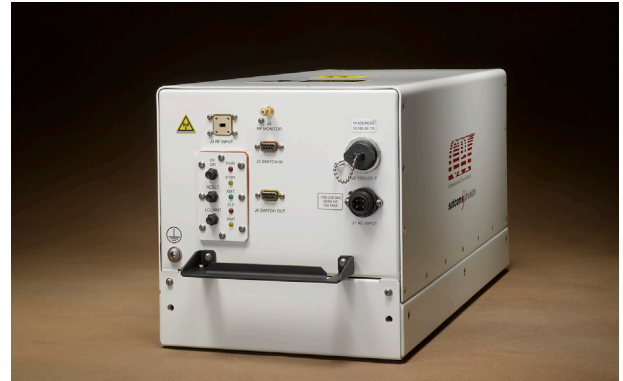
Modular design and built-in fault diagnostic capability via remote monitor and control.

Meets Global Requirements

Meets International Safety Standard EN-60215, Electromagnetic Compatibility 2014/30/EU and Harmonic Standard EN-61000-3-2 to satisfy worldwide requirements. CE Marked.

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 150 W Ka-band TWTA, model VZA2791J1.

OPTIONS:

- Outdoor operation (weatherized)
- Rack-mount configuration

Quality Management
System - ISO 9001:2015



Specification		CPI Model VZA2791J1, 150 W CW Ka-band TWTA	
Electrical Specifications			
Frequency		26.5 to 40.0 GHz	
Output Power (min)	TWT CW Power Flange	150 W (54.0 dBm) 100 W (50.0 dBm) min, 125 W (51.0 dBm) typ.	
Bandwidth		13.5 GHz, instantaneous	
Gain		50 dB min. at rated power output, 53 dB min. at small signal	
Gain Stability		±0.25 dB/24 hour max. (at constant drive and temp.) ±1.0 dB over temperature range	
Small Signal Gain Slope		±0.025 dB/MHz max.	
Small Signal Gain Variation		±5.0 dB pk-pk typ. across full bandwidth, at 6 dB backoff	
RF Level Adjust Range		0 to 20 dB typ.	
Attenuator Step Size		0.1 dB typ.	
Input VSWR		2:1 max.	
Output VSWR		2:1 max.	
Load VSWR		1.5:1 max; no degradation, infinite VSWR without damage	
Phase Noise		IESS 308 continuous mask	
Noise and Spurious		-50 dBc max.	
AM/PM Conversion		2.5°/dB max. for a single carrier up to 6 dB below rated power	
Primary Power		100-240 VAC ± 10% single phase, 47-63 Hz	
Power Consumption		650 VA typ. at saturated RF output power; 750 VA max.	
Power Factor		0.95 min.	
Environmental Specifications			
Ambient Temperature		-40°C to +45°C operating	
Relative Humidity		RF unit: 100% condensing	
Altitude		10,000 ft. with standard adiabatic derating of 2°C/1000 ft, operating; 50,000 ft. non-operating	
Shock and Vibration		20g pk estimated, as encountered in normal truck transportation	
Mechanical Specifications			
Cooling		Forced air with integral blower	
RF Input Connection		WR28F waveguide flange (WR34F optional)	
RF Output Connection		WR34G waveguide flange (WR28F optional)	
Remote Interface		RS422/485 serial and RS232 serial, or IEEE-488 GPIB, Ethernet optional	
RF Output Monitor		2.9 mm SMA Female	
Dimensions (W x H x D)		10.25 x 9.5 x 20 inches (261 x 242 x 508 mm)	
Weight		55 lbs max. (25 kg) with no options	
Heat and Acoustic			
Heat Dissipation		450 W typ.	
Acoustic		65 dBA typ.	



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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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