

For EMC/EMI and other instrumentation applications.

Provides a minimum of 40 watts of power in a split-mount package, across the 26.5 to 40.0 GHz frequency range.

Touchscreen Graphical Interface

State of the art touchscreen interface with both amplifier and/or system level control capabilities. Includes fault logs, parameter trending and scopescreen for monitoring performance. Internal switch control eliminates need for external controllers.

Easy to Maintain

Modular design and built-in fault diagnostic capability with convenient and clearly visible indicators for easy maintainability in the field. A USB port is available for uploading new firmware and system configurations, and downloading logs and system configurations for cloning to other units.

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 40 W Ka-band TWTA, Model TZA6902J1, shown here with optional cradle

OPTIONS:

- Input isolator
- IEEE-488 interface
- RS-232 or RS-422/485 serial interface
- Interconnect cable up to 12 meters
- RF cradle reduces setup time (shown in above photo)

Quality Management
System - ISO 9001:2015



Specification	CPI Model TZA6902J1, 40 W Ka-band Split-Mount TWTA
Electrical Specifications	
Frequency	26.5 to 40.0 GHz
Output Power (min) TWT CW Power Flange	40 W (46.0 dBm) 39 W (45.9 dBm) min.
Bandwidth	13.5 GHz, instantaneous
Gain	46 dB min. at rated power output
Gain Stability	±0.25 dB/24 hour max. (at constant drive and temp.) ±1.0 dB over temperature range
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	1.7:1 typ, 2.4:1 max.
Output VSWR	1.35:1 typ, 1.50:1 max.
Load VSWR	2.0:1 max; no degradation, infinite VSWR without damage
Phase Noise	-120 dBc/Hz max. from 1 to 350 MHz, 6 dB below IESS-308 below 1 MHz (-21 dBc/Hz typ.)
Noise and Spurious	-50 dBc max.
Noise Power Out	+23 dBm max. total
Primary Power	100-240 VAC ± 10% single phase, 47-63 Hz
Power Consumption	700 VA typ. at saturate RF output power; 1200 VA max.
Power Factor	0.95 min.
Environmental Specifications	
Ambient Temperature	-10°C to +50°C operating
Relative Humidity	RF unit: 100% condensing; PS unit: 95% non-condensing
Altitude	10,000 ft. with standard adiabatic derating of 2°C/1000 ft, operating; 50,000 ft. non-operating
Shock and Vibration	As encountered in normal truck transportation
Mechanical Specifications	
Cooling	Forced air with integral blower
RF Input Connection	WR28F waveguide flange
RF Output Connection	WR28G waveguide flange
Remote Interface	RS422/485 serial, RS232 serial, or IEEE-488 GPIB
RF Output Monitor	Type K female
Dimensions (W x H x D)	RF Section: 8.5 x 12.83 x 20 inches (216 x 324 x 508 mm) PS Section: 19 x 8.75 x 24 inches (483 x 223 x 610 mm)
Weight	RF Section: 40 lbs max. (18.2 kg) PS Section: 50 lbs max. (22.7 kg)
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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