For EMC/EMI and other instrumentation applications.

Provides a mininum of 40 watts of power in a split-mount package, across the 18.0 to 26.5 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 TZK6901J1, 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 TZK6901J1, 40 W K-Band Split-Mount TWTA |
|------------------------------|---|
| Electrical Specifications | |
| Frequency | 18.0 to 26.5 GHz |
| Output Power (min) | |
| TWT CW Power Flange | 40 W (46.0 dBm) 39 W (45.9 dBm) min. |
| Bandwidth | 8.5 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 | WR42F waveguide flange |
| RF Output Connection | WR42G 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. |



SMP Division Satcom Products

tel: +1 (669) 275-2744

email: satcommarketing@cpii.com
web: www.cpii.com/satcom

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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