

Communications & Power Industries Pulsed Amplifier



Compact

Five rack-units tall (8.75 in/222 mm).

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, and quiet operation suitable for laboratory environments.

An integral solid state preamplifier and IEEE interface are included as standard features.

Global Applications

230 VAC operation. Designed to meet International Safety Standard EN61010 and Electromagnetic Compatibility 2004/108/EC.

Easy to Maintain

Modular design and built-in fault diagnostic capability.

Worldwide Support

Backed by CPI's worldwide 24-hour customer support network that includes more than 20 regional factory service centers.

With a history of producing high quality products, we can help you with your pulsed amplifier.

Contact us at BMDMarketing@cpil.com or call us at +1 978-922-6000.

FEATURES:

- Rack mount
- GPIB remote

BENEFITS:

- Compact high pulsed power
- Single phase AC power
- Local or remote control
- Wide RF bandwidth

APPLICATIONS:

- Test and measurement systems

CPI M-Band 8-18 GHz 2.0 kW Compact Pulsed Amplifier: VZM3529J1

SPECIFICATIONS

| | |
|---------------------------------|--|
| Frequency | 8.0 to 8.0 GHz |
| Output power (min.) flange: TWT | 2000 W |
| Gain | 63 dB min. at rated power output; 65 dB min. at small signal |
| Gain adjustment range | 0 to 20 dB |
| Input VSWR | 2.5:1 maximum |
| Output VSWR | 2.5:1 typical |
| Load VSWR | 1.5:1 maximum for full spec. compliance; Any value for continuous operation (soft fail VSWR protection limits 500 W peak) |
| Pulsewidth | 0.1 μ s to 50 μ s |
| PRF | 50 kHz maximum |
| Duty cycle | 4% maximum |
| Delay | 400 ns typical |
| Droop | 0.5 dB over 50 μ s |
| NPO | -15 dBm/MHz Beam On; -110 dBm/MHz Beam Off |
| Primary power | 220-240 VAC, \pm 10%, single phase 47- 63 Hz |
| Power consumption | 1.2 kVA typical |
| Filament voltage | Reduction of 10% in standby for extended TWT life |
| Inrush current | 200% max. |
| Ambient temperature | -10° to 40°C operating; -40° to 70°C non-operating |
| Relative humidity | 95% non-condensing |
| Altitude | 10,000 ft. with standard adiabatic derating of 2°C/1000 ft., operating; 40,000 ft., non-operating |
| Shock and vibration | As normally encountered in a protected laboratory environment |
| Acoustic noise | 65 Dba @ 3 ft. from amplifier |
| Cooling (TWT) | Forced air with integral blower; Rear air intake and exhaust; 0.10" water max. external pressure loss allowable |
| RF Input connection | Type N female |
| RF Output connection | WRD-750D24 waveguide flange |
| RF Output monitor | Type N female, -50 dB nominal |
| Dimensions (W x H x D) | 19 x 8.72 x 26 in. (483 x 222 x 661 mm) |
| Weight | 150 lbs. (68 kg) maximum |
| Heat dissipation | \approx 850 W |
| Safety | ENG61010 |



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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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