

## Communications & Power Industries Compact 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 backed by CPI's worldwide 24-hour customer support network.

### Worldwide Support

Backed by more than 50 years of high power experience, CPI's worldwide 24-hour customer support network 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](mailto: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 up to 6 GHz

#### APPLICATIONS:

- Test and measurement systems

# CPI S/C-Band 2-8 GHz 2.0 kW Compact Pulsed Amplifier: VZS/C3529J1

## SPECIFICATIONS

Frequency	2.0 to 8.0 GHz
Output power (min.) flange	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.
Pulsewidth	0.1 $\mu$ s to 50 $\mu$ s
PRF	-50 kHz maximum, 100 kHz maximum available as option
Duty cycle	6% maximum
Delay	400 ns typical
Droop	0.5 dB over 50 $\mu$ 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	$\approx$ 1.4 kVA typical
Filament voltage	Reduction of 10% in standby for extended TWT life
Inrush current	200% maximum
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
Cooling (TWT)	Rear air intake and exhaust; 0.10" water maximum external pressure loss allowable
RF Input connection	Type N female
RF Output connection	Type N female
RF Output monitor	Type N female, -50 dB nominal
Dimensions (W X H X D)*	19 x 8.72 x 26 in. (483 x 221 x 661 mm)
Weight	150 lbs. (68 kg) maximum
Heat dissipation	$\approx$ 1100 W
Safety	ENG61010
Acoustic noise	65 dBA @ 3 ft. from amplifier

\*excluding cabinet and system accessories



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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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