

## 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.

#### 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 $\mu$ s to 50 $\mu$ s
PRF	50 kHz maximum
Duty cycle	4% 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	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