

## CPI Beverly Microwave Division Compact Pulsed Amplifier (8.75 in/222 mm).



### Versatile

Wide band, automatic fault recycle, user-friendly microprocessor-controlled logic with integrated computer interface, digital metering, 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 more than 50 years of high power experience, CPI's worldwide 24-hour customer support network includes more than 20 regional factory service centers.

#### FEATURES:

- Rack mount
- Coaxial output
- GPIB remote
- Compact high pulsed power
- Single phase AC power
- Local or remote control
- Wide RF bandwidth

#### BENEFITS:

- Versatile
- Suitable for lab environments
- Designed for the global market
- Modular design and built-in fault diagnostics for easy maintenance
- Wide RF bandwidth reduces number of required amplifiers

#### APPLICATIONS:

- Test and measurement systems

# CPI S-Band 4.0 kW Compact Pulsed Amplifier: VZS3530J1

## Specifications

Frequency range	2.0 to 4.0 GHz
Output power	4000 W (in the majority of the frequency band)
Gain	66 dB min. at rated power (with no RF options) -66 dB min at small signal (with no RF options)
Gain adjustment range	20 dB min
Input VSWR	2.5:1 typical
Output VSWR	2.5:1 typical
Load VSWR	1.5:1 max for full spec compliance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.
Pulse width	0.1 to 100 $\mu$ s
PRF	50 kHz max
Duty cycle	6% max
Delay	300 ns.typical 400 ns max
Droop	0.5 dB over 50 $\mu$ s
NPR	-10 dBm/MHz beam on 110 dBm/MHz beam off
Primary power	220 – 240 VAC, single phase 47 – 63 Hz
Power consumption	2.0 KVA typical
Filament voltage	Reduction of 10% in standby for extended TWT life
Inrush current	200% max
Ambient temperature	-10°C to +40°C -40°C to +70°C
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	Forced air with integral blower Rear air intake & exhaust 0.10° water max external pressure loss allowable
RF Input connection	Type N female
RF Output connection	Type N female
RF Output monitor	Type N female, -46 dB nominal
Dimensions	19 x 8.72 x 26 in. (483 x 221 x 661 mm) Excluding connectors, fans, handles and exhaust duct
Weight	150 lbs. (68 kg) max
Heat dissipation	=1500 W
Safety	EN61010
Acoustic noise	65 dBA @ 3 ft. from amplifier