

CPI Beverly Microwave Division Compact Pulsed Amplifier



Compact

Eight rack-units tall (14 in/356 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 CPI's worldwide 24-hour customer support network that includes more than 20 regional factory service centers.

FEATURES:

- Rack mountable
- Waveguide output
- GPIB remote

BENEFITS:

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

APPLICATIONS:

- Test and measurement systems

X-Band 5.0 kW TWT Compact Pulsed Amplifier: VZX3530J1

Specifications

Frequency Range	8.0 to 12.0 GHz
Output Power (min.), Flange	5000 W
Gain	67dB min. at rated power (with no RF options); >67 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 μ s to 50 μ s
PRF	50 kHz max.
Duty Cycle	6% max.
Delay	400 ns typ.
Droop	0.5 dB over 50 μ s
NPO	-10 dBm/MHz Beam On; -110 dBm/MHz Beam Off
Primary Power	220 - 240 VAC \pm 10%, single phase 47- 63 Hz
Power Consumption	2.2 kVA typ., 2.5 kVA max.
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
Cooling (TWT)	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	WR-90 waveguide flange
Dimensions (W x H x D)	19 x 14 x 26 in. (483 x 356 x 661 mm), excluding connectors, fans, handles and exhaust duct
Weight	150 lbs (68 kg) max
Heat Dissipation	\approx 1500 W
Safety	EN61010
Acoustic Noise	65 dBA @ 3 ft. from amplifier



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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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