

# L-Band 4.0 kW TWT Compact Pulsed Amplifier

### VZL3530J1

### 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

#### Compact

Five rack-units tall (8.72 in/221 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.



Applications:
Test and measurement systems

#### **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.

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Specifications	
Frequency	1.0 to 2.0 GHz
Output Power at flange	4000 W (nominal, in majority of the band) (See Power Plot page 3)
Gain	66 db 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 opening due to coupling to input. Should not be tested connector off.
Pulse Width	0.1 μs to 100 μs
PRF	50 kHz max.
Duty Cycle	4% max
Delay	400 ns typ.
Droop	0.5 dB over 50 µs
NPO	-10 dBm/MHz Beam On; -110 dBm/MHz Beam Off
Primary Power	220 - 240 VAC, single phase 47- 63 Hz
Power Consumption	1.3 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
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	Type N female
Dimensions (W x H x D)	19 x 8.72 x 26 in. (483 mm x 221 mm x 661 mm) excluding connectors, fans, handles and exhaust duct
System Weight	150 lbs (68 kg) max
Heat Dissipation	≈ 800 W
Safety	EN61010
Acoustic Noise	65 dBA @ 3 ft. from amplifier

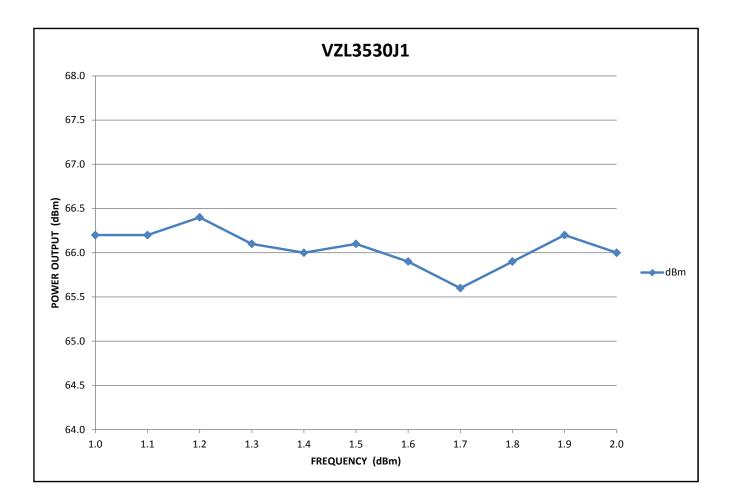
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VZL3530J1 PG.2

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.



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