

## Ku-Band 3.25 kW TWT Compact Pulsed Amplifier

**VZU3530J1**

### Features:

- Rack mountable
- Waveguide output
- GPIB remote

### Benefits:

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



### 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.

### Applications:

- Test and measurement systems

### 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.

Distributed by: Reliant EMC LLC, 3311 Lewis Ave, Signal Hill CA 90755, 408-916-5750, [www.reliantemc.com](http://www.reliantemc.com)

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## 3.25 kW Compact Pulsed Amplifier - VZU3530J1

Specifications	
<b>Frequency</b>	12.0 to 18.0 GHz
<b>Output Power (min.), Flange</b>	3250 W
<b>Gain</b>	> 65 dB min. at rated power (with no RF options); 67 dB min. at small signal (with no RF options);
<b>Gain Adjustment Range</b>	20 dB min.
<b>Input VSWR</b>	2.5:1 typical
<b>Output VSWR</b>	2.5:1 typical
<b>Load VSWR</b>	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.
<b>Pulse Width</b>	0.1 to 100 $\mu$ s
<b>PRF</b>	50 kHz max, 100 kHz max. available as option
<b>Duty Cycle</b>	6% max.
<b>Delay</b>	400 ns typ.
<b>Droop</b>	0.5 dB over 50 $\mu$ s
<b>NPO</b>	-10 dBm/MHz Beam On; -110 dBm/MHz Beam Off
<b>Primary Power</b>	220 - 240 VAC, single phase 47- 63 Hz
<b>Power Consumption</b>	2.2 kVA typ.
<b>Filament Voltage</b>	Reduction of 10% in standby for extended TWT life
<b>Inrush Current</b>	200% max.
<b>Ambient Temperature</b>	-10° to +40°C operating -40° to +70°C non-operating
<b>Relative Humidity</b>	95% non-condensing
<b>Altitude</b>	10,000 ft. with standard adiabatic derating of 2°C/1000 ft., operating; 40,000 ft., non-operating
<b>Shock and Vibration</b>	As normally encountered in a protected laboratory environment
<b>Cooling (TWT)</b>	Forced air with integral blower Rear air intake & exhaust; 0.10" water max. external pressure loss allowable
<b>RF Input Connection</b>	Type N female
<b>RF Output Connection</b>	WR-62 waveguide flange
<b>Dimensions (W x H x D)</b>	19 x 14 x 26 in. (483 x 356 x 661 mm) excluding connectors, fans, handles and exhaust duct
<b>Weight</b>	150 lbs (68 kg) max
<b>Heat Dissipation</b>	≈1600 W
<b>Safety</b>	EN61010
<b>Acoustic Noise</b>	65 dBA @ 3 ft. from amplifier