

## X-Band 8.0 kW TWT Compact Pulsed Amplifier

### VZX3530P2

#### Features:

- Mobile
- GPIB remote
- Touchscreen
- Waveguide output

#### Benefits:

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



#### Versatile

Modular assembly allows for either lower powered multiple test applications or a single amplifier phase combined system of two VZX3530J1 amplifiers achieving 8.0 kW peak-pulsed output power.

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. NOT subject to ITAR export controls.

#### 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.

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- Solid State Power Amplifiers • Integrated Microwave Assemblies
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- Modulators • Magnetrons • Crossed Field Amplifiers
- Ring Loop Traveling Wave Tubes • Power Couplers



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Specifications	
<b>Frequency</b>	8.0 to 12.0 GHz
<b>Output Power (min.), Flange</b>	8000 W (combined)
<b>Gain</b>	69 dB min. at rated power; >69 dB typical
<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. (VSWR protection)
<b>Pulse Width</b>	0.1 $\mu$ s to 100 $\mu$ s
<b>PRF</b>	50 kHz max.
<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>	4.0 kVA typical
<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-90 waveguide
<b>Dimensions (W x H x D)*</b>	23 x 59 x 37 in. (584 x 1499 x 940 mm)
<b>System Weight</b>	≈600 lbs (273 kg)
<b>Heat Dissipation</b>	≈3000 W
<b>Safety</b>	EN61010

\*excluding cabinet and system accessories

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The values listed above represent specified limits for the product and are subject to change. The data should be used for basic