Communications & Power Industries

Beverly Microwave Division
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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

Applications:

- **Test and measurement systems**

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.

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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Specifications	
Frequency	8.0 to 12.0 GHz
Output Power (min.), Flange	8000 W (combined)
Gain	69 dB min. at rated power; >69 dB typical
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. (VSWR protection)
Pulse Width	0.1 µs to 100 µs
PRF	50 kHz max.
Duty Cycle	6% 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	4.0 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	WR-90 waveguide
Dimensions (W x H x D)*	23 x 59 x 37 in. (584 x 1499 x 940 mm)
System Weight	≈600 lbs (273 kg)
Heat Dissipation	≈3000 W
Safety	EN61010

*excluding cabinet and system accessories

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.

For information on this and other CPI products visit our webpage at www.cpii.com/bmd, or contact:
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Rev. 7/17