# 5.0 kW Compact Pulse Amplifier

for Test and Measurement Applications

# 8.0 to 12.0 GHz



#### The VZX-3530J1

5000 Watt TWT Compact Pulsed Amplifier

# Compact

Eight rack-units tall (14.0 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 backed by CPI's worldwide 24-hour customer support network that includes sixteen regional factory service centers.



Communications & Power Industries Canada, Inc. 45 River Drive Georgetown, Ontario CANADA L7G2J4

*tel:* +1 (905) 877-0161 *fax:* +1 (905) 877-5327

**e-mail:** marketing@cmp.cpii.com www.cpii.com/satcom

OPTIONS:

• Input Isolator

(-1 dB Gain)

• Remote Control Panel

# SPECIFICATIONS, VZX-3530J1

#### Electrical **Environmental** Frequency 8.0 to 12.0 GHz **Ambient Temperature** -10° to +40°C operating -40° to +70°C non-operating Output Peak Power (min.) TWT 5000 W Relative Humidity 95% non-condensing Flange 4800 W Altitude 10,000 ft. with standard adiabatic Gain 65 dB min. at rated power (with no RF options); derating of 2°C/1000 ft., operating; 67 dB min. at small signal (with no RF options); 40,000 ft., non-operating deduct one dB of gain from the above **Shock and Vibration** As normally encountered in a minimums for each RF option protected laboratory environment Gain Adjustment Range 20 dB min. Mechanical Gain Stability ±0.25 dB/24hr max. (after 30 minute warmup Cooling (TWT) Forced air with integral blower and at constant drive and temp.) Rear air intake & exhaust; 2.5:1 typ; Input VSWR 0.10" water max. external pressure 1.5:1 typ. with optional input isolator loss allowable **Output VSWR** 2.5:1 typ. **RF Input Connection** Type N female Load VSWR 1.5:1 max. for full spec. compliance; **RF Output Connection** WR-90 waveguide flange Any value for continuous operation (soft fail Dimensions (WxHxD)\* 19 x 14 x 27.5 in. VSWR protection limits at 500 W peak) (483 x 356 x 699 mm) Phase Noise 0.5°rms asynchronous ripple Weight 150 lbs (55 kg) max. Pulse Width 0.07 to $50~\mu s$ **Heat Dissipation** 2200 watts max. PRF 50 kHz max, 100 kHz max. available as option Safety EN61010 **Duty Cycle** 6% max. Acoustic Noise 65 dBA @ 3 ft. from amplifier Delay 400 ns typ. 0.5 dB over 50 μs Droop \*Dimensions exclude front handles, rear fans and exhaust ducts. NP0 -10 dBm/MHz Beam On; -110 dBm/MHz Beam Off







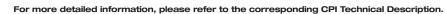
220 - 240 VAC ±10%, single phase 47-63 Hz

TWT life (available as option)

Reduction of 10% in standby for extended

2.2 kVA typ. 2.5 kVA max.

200% max.



Note: Specifications may change without notice as a result of additional data or product refinement.

**Primary Power** 

**Power Consumption** 

Filament Voltage

Inrush Current

