5.0 kW Compact Pulse Amplifier

8.0 to 12.0 GHz

for Test and Measurement Applications

Control of the Contro

LOCAL SE. JdBn RK 12.88 KV 2.66 A ATTENUATOR 0.0ds

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 twenty regional factory service centers.



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OPTIONS:

• Input Isolator (-1 dB Gain)

· Remote Control Panel

• 10% Duty Cycle (note: bandwidth is lower when this option is included. Contact CPI for details.)

SPECIFICATIONS, VZX-3530J1

Electrical		Environmental	
Frequency Output Peak Power (min.)	8.0 to 12.0 GHz	Ambient Temperature	-10° to +40°C operating -40° to +70°C non-operating
TWT Flange	5000 W 4800 W	Relative Humidity	95% non-condensing
Gain	65 dB min. at rated power (with no RF options); 67 dB min. at small signal (with no RF options); deduct one dB of gain from the above minimums for each RF option	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
Gain Adjustment Range	20 dB min.	Mechanical	
Gain Stability	± 0.25 dB/24hr max. (after 30 minute warmup and at constant drive and temp.)	Cooling (TWT)	Forced air with integral blower Rear air intake & exhaust;
Input VSWR	2.5:1 typ; 1.5:1 typ. with optional input isolator		0.10" water max. external pressure loss allowable
Output VSWR	2.5:1 typ.	RF Input Connection	Type N female
Load VSWR	1.5:1 max. for full spec. compliance; Peak output pulse power foldback protection at peak reflected power. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.	RF Output Connection	WR-90 waveguide flange
		Dimensions (WxHxD)	19 x 14 x 26 in. (483 x 356 x 661 mm) excluding connectors, fans, handles and exhaust duct
		Weight	150 lbs (68 kg) max.
		Heat Dissipation	2200 watts max.
Phase Noise	0.5°rms asynchronous ripple	Safety	EN61010
Pulse Width	0.07 to 50 μs	Acoustic Noise	65 dBA @ 3 ft. from amplifier
PRF	50 kHz max, 100 kHz max. available as option		
Duty Cycle	6% max.		
Delay	400 ns typ.		

This product is subject to the U.S. International Traffic in Arms Regulations (ITAR). Sale of this product is subject to US Government approval. In accordance with part 126.1 of the ITAR, it is the policy of the United States to deny licenses and other approvals for the sales, exports/ imports, and or transfer of items subject to the ITAR destined for or originating in certain countries in which the U.S. maintains an arms embargo.

Reduction of 10% in standby for extended

0.5 dB over 50 µs

-10 dBm/MHz Beam On; -110 dBm/MHz Beam Off

220 - 240 VAC $\pm 10\%$, single phase 47-63 Hz

TWT life (available as option)

2.2 kVA typ.2.5 kVA max.

200% max.









Droop

NP0

Primary Power

Power Consumption

Filament Voltage

Inrush Current