4.0 kW Compact Pulse Amplifier

for Test and Measurement Applications



The VZL-3530J1

4000 Watt TWT Compact Pulsed Amplifier

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.

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.



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OPTIONS:

• Input Isolator

(-1 dB Gain)

• Remote Control Panel

SPECIFICATIONS, VZL-3530J1

SPECIFICATIONS Electrical	9, VZL-3530J1	Environmental	
Frequency	1.0 to 2.0 GHz	Ambient Temperature	-10° to +40°C operating -40° to +70°C non-operating
Output Peak Power (min.)	4250 W	Relative Humidity	95% non-condensing
Flange	4000 W	-	Ŭ
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; Any value for continuous operation (soft fail VSWR protection limits at 500 W peak)	RF Output Connection	S/C coaxial
		Dimensions $(W x H x D)^*$	19 x 14 x 27.5 in. (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 µs	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.		
Droop	0.5 dB over 50 µs	*Dimension exclude front handles, rear fans and exhaust ducts.	
NPO	-10 dBm/MHz Beam On; -110 dBm/MHz Beam Off		
Primary Power	220 - 240 VAC ±10%, single phase 47-63 Hz		
Power Consumption	2.2 kVA typ. 2.5 kVA max.		
Filament Voltage	Reduction of 10% in standby for extended TWT life (available as option)		

CE (*N* ISO 9001 Certificate Number: 30515



For more detailed information, please refer to the corresponding CPI Technical Description.

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

Inrush Current

200% max.

Please contact CPI before using this information for system design.



