Compact Medium Pulsed Amplifier

for Test and Measurement Applications



Compact

Five rack units tall (8.75 in/222 mm).

Versatile

Ultra wide-band, automatic fault recycle, user friendly microprocessor-controlled logic with integrated computer interface, digital metering, electronic variable attenuation, soft fail when subjected to extreme load SWR conditions, quiet operation for a laboratory environment.

An integral solid state preamplifier and IEEE interface are included as standard features.

Global Applications

230 VAC operation. Meets International Safety Standard EN61010 and Electromagnetic Compatibility 89/336/EEC.

Easy to Maintain

Modular design and built-in fault diagnostic capability backed by CPI's worldwide 24-hour customer support network that includes 9 regional factory Service Centers.



INSTRUMENTATION AMPLIFIERS

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The VZL-3529J1

2000 Watt TWT Compact Medium Pulsed Amplier.

SPECIFICATIONS, VZL-3529J1 Elec

OPTIONS:

- Input Isolator (-1 dB gain)
- Remote Control Panel
- 115 VAC External Step-Up Transformer

Electrical		Environmental (Operating)	
TWT Model Number	PT-1094-2	Ambient Temperature	-10° to + 40°C operating
Frequency	1.0 to 2.5 GHz	Relative Humidity	95% non-condensing
Output Power TWT	2200W (min.)	Altitude	10,000 ft. with standard adiabatic derating of 2°C/1000 ft., operating
Flange Gain	2000W (min.) 63 dB min. at rated power output; 65 dB min. at small signal	Shock and Vibration	As normally encountered in a protected engineering laboratory environment
RF Level Adjust	0 to 20 dB	Acoustic Noise	65 dBA @ 3 ft. from amplifier
Gain Stability	±0.25 dB/24hr max. (after 30 min. warmup and at constant drive and temperature)	Mechanical	
		Cooling (TWT)	Forced air with integral blower Rear air intake & exhaust
Gain Variation	18 dB pk-to-pk, typical	RF Connectors	
Input VSWR	2.5:1 max. 2.0:1 max. (with optional input isolator)	Input Output	Type-N Female Type-N Female
Output VSWR	2.5:1 typical	RF Output Monitor	Type-N Female, -50 dB nominal
Load VSWR	1.5:1 max. for full spec compliance VSWR Protection Limits 500 Watts	Dimensions (W x H x D)	19 x 8.75 x 26 in (483 x 222 x 661 mm)
Phase Noise	0.50 degrees rms asynchronous ripple	Weight	120 lbs/55 kg
Pulse Width	0.07 to 50 microseconds	Safety	EN61010
PRF Droop NPO Duty Cycle	100 microseconds available (Optional) 50 KHz max. 100 KHz (Optional) 0.5 dB over 50 microseconds -15 dBm/MHz (on) -110 dBm/MHz (off) 6.0% max.	Heat Dissipation	700 Watts (TBD)
Delay	300 nanoseconds (typical) 400 ns max.		
Harmonic Content	-3 dBc typical at lower band edge decreasing to -15 dBc typical at upper band edge.		
Primary Power Voltage Frequency	220-240 VAC ±10%, single phase 47-63 Hz		
Power Consumption	2.6 kVA typical 3.0 kVA max.		
Inrush Current	200% max.		

Filament Voltage



KEEPING YOU ON THE AIR not up in the air

reduction of 10% in standby (Optional)

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. Please contact CPI before using this information for system design.



AMPLIFIERS