Compact Medium Pulsed Amplifier

for Test and Measurement Applications

8.0 to 18.0 GHz

The VZM-3529J1

2000 Watt TWT Compact Medium Pulsed Amplier.



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.



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OPTIONS:

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

SPECIFICATIONS, VZM-3529J1 Electrical

Liectrical	
TWT Model Number	VTM5192A7
Frequency	8.0 to 18.0 GHz
Output Power TWT Flange	2200W (min.) 2000W (min.)
Gain	63 dB min. at rated power output; 65 dB min. at small signal
RF Level Adjust	0 to 20 dB
Gain Stability	±0.25 dB/24hr max. (after 30 min. warmup and at constant drive and temperature)
Gain Variation	18 dB pk-to-pk, typical
Input VSWR	2.5:1 max. 2.0:1 max. (with optional input isolator)
Output VSWR	2.5:1 typical
Load VSWR	1.5:1 max. for full spec compliance VSWR Protection Limits 500 Watts
Pulse Width	0.50 degrees rms asynchronous ripple 0.07 to 50 microseconds
PRF Droop NPO Duty Cycle	100 microseconds available (Optional) 50 KHz max. 100 KHz (Optional) 0.5 dB over 300 microseconds -15 dBm/MHz (on) -110 dBm/MHz (off) 4.0% max.
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 \pm 10%, single phase 47-63 Hz
Power Consumption	2.6 kVA typical 3.0 kVA max.
Inrush Current	200% max.

Environmental (Operating)

Ambient Temperature -10° to + 40°C operating

Relative Humidity 95% non-condensing

10,000 ft. with standard adiabatic derating of 2°C/1000 ft., operating

Shock and Vibration As normally encountered in a protected engineering laboratory

environment

Acoustic Noise 65 dBA @ 3 ft. from amplifier

Mechanical

Cooling (TWT) Forced air with integral blower
Rear air intake & exhaust

RF Connectors

Input Type-N Female
Output WRD-750 Wave Guide Flange

RF Output Monitor Type-N Female, -50 dB nominal

Dimensions (W x H x D) 19 x 8.75 x 26 in (483 x 222 x 661 mm)

Weight 120 lbs/55 kg
Safety EN61010

Heat Dissipation 700 Watts (TBD)



reduction of 10% in standby (Optional)



KEEPING YOU ON THE AIR not up in the air

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.

