Communications & Power Industries

M-Band (8-18 GHz) 2.0 kW Compact Pulse Amplifier

VZM3529J1

Features:

- Rack mount
- GPIB remote

Benefits:

- Compact high pulsed power
- Single phase AC power
- Local or remote control
- Wide RF bandwidth up to 10 GHz

Applications:

- **Test and measurement systems**

Compact

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

Versatile

Ultra-wideband, 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, 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 EMC 2004/108/EC.

Easy to Maintain

Modular design and built-in fault diagnostic capability backed by CPI's worldwide 24-hour customer support network.

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Specifications	
Frequency	8.0 to 18.0 GHz
Output Peak Power (min.) Flange	2000 W
Gain	63 dB min. at rated power output; 65 dB min. at small signal
Gain adjustment range	0 to 20 dB
Input VSWR	2.5:1 max;
Output VSWR	2.5:1 typ.
Load VSWR	1.5:1 max. for full spec. compliance; (VSWR protection)
Pulse Width	0.1 to 50 µs
PRF	50 kHz max.
Duty Cycle	4% max.
Delay	400 ns typical
Droop	0.5 dB over 50 µs
NPO	-15 dBm/MHz Beam On; -110 dBm/MHz Beam Off
Primary Power	220 - 240 VAC, single phase 47- 63 Hz
Power Consumption	1.2 kVA typical
Filament Voltage	Reduction of 10% in standby for extended TWT life
Inrush Current	200% max
Ambient Temperature	-10° to +40°C operating -40° to +70°C non-operating
Relative Humidity	95% non-condensing
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
Cooling (TWT)	Forced air with integral blower Rear air intake & exhaust; 0.10" water max. external pressure loss allowable
RF Input Connection	Type N female
RF Output Connection	WRD- 750D24 W/G Flange
RF Output Monitor	Type N female, -50 dB nominal
Dimensions (W x H x D)*	19 x 8.72 x 26 in.
Weight	(483 x 221 x 661 mm) 150 lbs (68 kgs) max.
Heat Dissipation	≈850 W
Safety	EN61010
Acoustic Noise	65 dBA @ 3 ft. from amplifier

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic