Communications & Power Industries

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S/C-Band (2-8 GHz) 2.0 kW Compact Pulse Amplifier

VZS/C3529J1

Features:

- Rack mount
- GPIB remote

Benefits:

- Compact high pulsed power
- Single phase AC power
- Local or remote control
- Wide RF bandwidth up to 6 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	2.0 to 8.0 GHz
Output 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;
Pulse Width	0.1 to 50 µs
PRF	-50 kHz max, 100 kHz max. available as option
Duty Cycle	6% 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 ±10%, single phase 47- 63 Hz
Power Consumption	≈1.4 kVA typical
Filament Voltage	Reduction of 10% in standby for extended TWT life (available as option)
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)	Rear air intake & exhaust; 0.10" water max. external pressure loss allowable
RF Input Connection	Type N female
RF Output Connection	Type N female
RF Output Monitor	Type N female, -50 dB nominal
Dimensions (W x H x D)*	19 x 8.72 x 26 in. (483 x 221 x 661 mm)
Weight	150 lbs (68 kg) max.
Heat Dissipation	≈1100 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 information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.

For information on this and other CPI products visit our webpage at www.cpii.com/bmd, or contact:
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