# **Compact Medium Pulsed Amplifier**

for Test and Measurement Applications

8.0 to 18.0 GHz

The VZM-3529J1/1000

1000 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-3529J1/1000 Electrical

TWT Model Number VTM5192A7 Frequency 8.0 to 18.0 GHz **Output Power** Altitude TWT 1100W (min.) Flange 1000W (min.) 63 dB min. at rated power output; Gain 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. Input 2.0:1 max. (with optional input isolator) Output **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 Weight 0.07 to 50 microseconds Safety 100 microseconds available (Optional) PRF 50 KHz max. 100 KHz (Optional) Droop 0.5 dB over 300 microseconds -15 dBm/MHz (on) -110 dBm/MHz (off) NPO Duty Cycle 4.0% max. 300 nanoseconds (typical) 400 ns max. Delay Harmonic Content -3 dBc typical at lower band edge decreasing to -15 dBc typical at upper band edge. **Primary Power** Voltage 220-240 VAC  $\pm 10\%$ , single phase Frequency 47-63 Hz **Power Consumption** 2.6 kVA typical 3.0 kVA max. Inrush Current 200% max.

reduction of 10% in standby (Optional)

#### **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

Type-N Female WRD-750 Wave Guide Flange

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

Dimensions (WxHxD) 19 x 8.75 x 26 in (483 x 222 x 661 mm)

120 lbs/55 kg EN61010

700 Watts (TBD) **Heat Dissipation** 



# **KEEPING YOU ON THE AIR** not up in the air

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

Filament Voltage

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.

