

Ku-Band 3.25 kW TWT Compact Pulsed Amplifier

VZU3530J1

Features:

- Rack mountable
- Waveguide output
- GPIB remote

Benefits:

- Compact high pulsed power
- Single phase AC power
- Local or remote control
- Wide RF bandwidth



Compact

Eight rack-units tall (14 in/356 mm).

Versatile

Wide band, automatic fault recycle, user-friendly microprocessor-controlled logic with integrated computer interface, digital metering, 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 2004/108/EC.

Applications:

- Test and measurement systems

Easy to Maintain

Modular design and built-in fault diagnostic capability.

Worldwide Support

Backed by CPI's worldwide 24-hour customer support network that includes more than 20 regional factory service centers.



3.25 kW Compact Pulsed Amplifier - VZU3530J1

Specifications	
Frequency	12.0 to 18.0 GHz
Output Power (min.), Flange	3250 W
Gain	> 65 dB min. at rated power (with no RF options); > 67 dB min. at small signal (with no RF options);
Gain Adjustment Range	20 dB min.
Input VSWR	2.5:1 typical
Output VSWR	2.5:1 typical
Load VSWR	1.5:1 max. for full spec. compliance; May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.
Pulse Width	0.1 to 100 μ s
PRF	50 kHz max, 100 kHz max. available as option
Duty Cycle	6% max.
Delay	400 ns typ.
Droop	0.5 dB over 50 μ s
NPO	-10 dBm/MHz Beam On; -110 dBm/MHz Beam Off
Primary Power	220 - 240 VAC, single phase 47- 63 Hz
Power Consumption	2.2 kVA typ.
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	WR-62 waveguide flange
Dimensions (W x H x D)	19 x 14 x 26 in. (483 x 356 x 661 mm) excluding connectors, fans, handles and exhaust duct
Weight	150 lbs (68 kg) max
Heat Dissipation	≈1600 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:
CPI Beverly Microwave Division, +1 (978) 922-6000 • FAX: +1 (978) 922-8914 • bmdmarketing@cpii.com