C-Band 8.0 kW TWT Pulsed Amplifier VZC3530P2

Communications & Power Industries Pulsed Amplifier

Versatile
Modular assembly allows for either lower powered multiple test applications or a single amplifier phase combined system of two VZC-3530J1 amplifiers achieving 8.0 kW peak-pulsed output power.

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. NOT subject to ITAR export controls.

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.

With a history of producing high quality products, we can help you with your pulsed amplifier.

FEATURES:
- Mobile
- GPIB remote
- Touchscreen
- Waveguide output

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

APPLICATIONS:
- Test and measurement systems

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SPECIFICATIONS

Frequency	4.0 to 8.0 GHz
Output power (min.) flange	8000 W
Gain	66 dB min. at rated power; 70 dB typical
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; Any value for continuous operation (VSWR protection)
Pulsewidth	0.1 µs to 100 µs
PRF	50 kHz max.
Duty cycle	6% max.
Delay	400 ns typical
Droop	0.5 dB over 50 µs
NPO	-10 dBm/MHz Beam on: -110 dBm/MHz Beam off
Primary power	220-240 VAC, single phase 47-63 Hz
Power consumption	4.0 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 and exhaust; 0.10" water max. external pressure oss allowable
RF Input connection	Type N female
RF Output connection	WRD-350 waveguide flange
Dimensions (W x H x D)*	23 x 59 x 37 in. (548 x 1499 x 940 mm)
Systems weight	≈600 lbs. (273 kg)
Heat dissipation	≈3000 W
Safety	ENG61010
Acoustic noise	65 dBA @ 3 ft. from amplifier
	*excluding cabinet and system accessories

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