

8.0 kW Combined Pulse Amplifier

Versatile

Modular assembly allows for either lower powered multiple test applications or a single amplifier phase combined system of two VZL-3530J1 amplifiers achieving 8000 watts 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 backed by CPI's worldwide 24-hour customer support network that includes twenty regional factory service centers.

Worldwide Support

Backed by over 35 years of satellite communications experience, and CPI's worldwide 24-hour customer support network that includes more than 20 regional factory service centers.



Model VZL-3530P2

8.0 kW Combined Pulse Amplifier for Test and Measurement Applications

OPTIONS

- Remote Control Panel
- Input Isolator (-1 dB Gain)



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8.0 kW Combined Pulse Amplifier

Specification	Model VZL-3530P2
Frequency	1.0 to 2.0 GHz
Output Power (min.), TWT Output Power (min.), Flange	9000 W combined 8000 W typ, 7500 W min
Gain	65 dB min. at rated power; 70 dB typical
Gain Adjustment Range	20 dB min.
Gain Stability	±0.25 dB/24hr max. (after 30 minute warmup and at constant drive and temp.)
Input VSWR	2.5:1 typ; 1.5:1 typ. with optional input isolator
Output VSWR	2.5:1 typ.
Load VSWR	1.5:1 max. for full spec. compliance; Any value for continuous operation (soft fail VSWR protection limits at 500 W peak)
Phase Noise	0.5°rms asynchronous ripple
Pulse Width	0.07 to 50 µs
PRF	50 kHz max, 100 kHz max. available as option
Duty Cycle	4% max.
Delay	400 ns typ.
Droop	0.5 dB over 50 µs
NPO	-10 dBm/MHz Beam On; -110 dBm/MHz Beam Off
Primary Power	220 - 240 VAC ±10%, single phase 47- 63 Hz8
Power Consumption	2.2 kVA typ. 2.5 kVA max
Filament Voltage	Reduction of 10% in standby for extended TWT life
Inrush Current	200% max.
Ambient Temperature	-10° to +40°C operating -54° to +71°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	S/C Coaxial
Dimensions (W x H x D)	19 x 37 x 27.5 in. (483 x 940 x 699 mm)
System Weight	300 lbs (136 kg)
Safety	EN61010
Acoustic Noise	65 dBA @ 3 ft. from amplifier