6.0 kW Combined Pulse Amplifier

for Test and Measurement Applications

12.0 to 18.0 GHz

12.0 to 18.0 GHz

The VZU-3530P2

6000 Watt TWT Compact Pulsed Amplifier

Versatile

Modular assembly allows for either lower-powered multiple test applications or a single amplifier phase combined system of two VZU-3530J1 amplifiers achieving 6000 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.

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.

7.0 kW Compact Pulsed Amplifier

satcom division

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12.0 to 18.0 GHz

OPTIONS:

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

SPECIFICATIONS, VZU-3530P2

Electrical

Frequency	12.0 to 18.0 GHz
Output Peak Power (min.)	
TWT	7000 W combined
Flange	6000 W typ, 5500 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	6% 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 Hz
Power Consumption	2.2 kVA typ. 2.5 kVA max.
Filament Voltage	Reduction of 10% in standby for extended TWT life (available as option)
Inrush Current	200% max.

Environmental

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

Mechanical

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
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)
Heat Dissipation	2200 watts max.
Safety	EN61010
Acoustic Noise	65 dBA @ 3 ft. from amplifier

**Dimension exclude front handles, rear fans and exhaust ducts.*

This product is subject to the U.S. International Traffic in Arms Regulations (ITAR). Sale of this product is subject to US Government approval. In accordance with part 126.1 of the ITAR, it is the policy of the United States to deny licenses and other approvals for the sales, exports/ imports, and or transfer of items subject to the ITAR destined for or originating in certain countries in which the U.S. maintains an arms embargo.

ISO 9001 Certificate Number: 30515

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

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.*

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