Compact Medium Power Amplifier

for EMI/EMC Test and Measurement Applications

18.0 - 22.0 GHz

The VZK-2792J1

250 W TWT Compact Medium Power Amplifier

Compact

Five rack units tall (8.75 in, 222 mm)

Versatile

Ultra-wideband, 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 laboratory environment.

An integral solid state pre-amplifier and IEEE interface are included as standard features.

Global Applications

230 VAC operation. Meets International Safety Standard EN61010 and Electromagnetic Compatibility 2004/108/EC.

Worldwide Support

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.

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18.0 - 22.0 GHz

Compact Medium Power Amplifier

OPTIONS:

- *Input Isolator (-1 dB gain)*
- *Remote Control Panel*
- *115 VAC External Step-Up Transformer*
- *18.0 to 21.7 GHz, 240 W minimum at the flange*

SPECIFICATIONS, VZK-2792J1

Electrical

Frequency	18.0 to 22.0 GHz
Output Power	
TWT	250 W min.
Flange	210 W min.
Bandwidth	4.0 GHz
Gain	52.2 dB min. at rated power output; 54.2 dB typ. at small signal
RF Level Adjust	0 to 20 dB continuous, typ.
Gain Stability	±0.25 dB/24 hr max. (at constant drive and temp.)
Gain Variation	10.0 dB pk-pk, typ.
Input VSWR	2.5:1 max. 1.8:1 max. (with optional input isolator)
Output VSWR	1.6:1 typ.
Load VSWR	1.5:1 max. for full spec compliance; 2.0:1 max. continuous operation; any value without damage
Noise and Spurious	-60 dBc/4 kHz typ.
Harmonic Content	-20 dBc
Primary Power	220-240 VAC ±10%, single phase, 47-63 Hz
Power Consumption	2.6 kVA typ. 3.0 kVA max.
Inrush Current	200% max.

Environmental (Operating)

Ambient Temperature	-10° to +40°C operating
Relative Humidity	95% non-condensing
Altitude	Up to 10,000 ft (3000 m) with standard adiabatic derating of 2°/1000 ft.
Shock and Vibration	Designed to meet conditions normally encountered in the laboratory
Acoustic Noise	65 dBA @ 3 ft. from amplifier

Mechanical

Cooling (TWT)	Forced air with integral blower. Rear air intake and exhaust.
RF Input Connection	2.9 mm Connector
RF Output Connection	WR-42 Waveguide
RF Power Monitors	2.9 mm Connector
Dimensions (W x H x D)	19 x 8.75 x 26 in. (483 x 222 x 661 mm)
Weight	110 lbs (50 kg)
Safety	EN61010

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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