

Compact Medium Power Amplifier

for EMI/EMC Test and Measurement Applications

2.0 - 8.0 GHz

The VZS/C-6963J2 Series

Compact HPA, with
250W or 320W
Traveling Wave Tube



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 89/336/EEC.

Worldwide Support

Modular design and built-in fault diagnostic capability, backed by CPI's worldwide 24-hour customer support network that includes fifteen regional factory service centers.

satcom  **division**

45 River Drive
Georgetown, Ontario, Canada L7G 2J4

tel: +1 (905) 877-0161
fax: +1 (905) 877-5327

e-mail: marketing@satcom.cpii.com
www.cpii.com/satcom

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Compact Medium Power Amplifier

OPTIONS :

- *Input Isolator (-1 dB gain)*
- *Remote Control Panel*
- *115 VAC External Step-Up Transformer*

SPECIFICATIONS, VZS/C-6963J2

Electrical

Frequency	2.0 to 8.0 GHz
Output Power	
TWT	250 W
Flange	225 W
High Power Option	
TWT	320 W
Flange	224 W from 2.0 to 2.5 GHz; 290 W from 2.5 to 7.5 GHz; 275 W from 7.5 to 8.0 GHz
Bandwidth	6.0 GHz
Gain	54 dB min. at rated power output; 56 dB typ. at small signal
RF Level Adjust	0 to 20 dB continuous
Gain Stability	±0.25 dB/24 hr max. (at constant drive and temp.)
Gain Variation	12.0 dB pk-pk max. over the 6.0 GHz bandwidth, typ.
Input VSWR	2.5:1 typ. 1.7:1 max. (with optional input isolator)
Output VSWR	2.5:1 typ.
Load VSWR	1.5:1 max. for full spec compliance; 2.0:1 max. continuous operation; any value without damage
Residual AM	-50 dBc below 10 kHz; -20 [1.3 + log F (kHz)] dBc, 10 kHz to 500 kHz; -85 dBc above 500 kHz
Phase Noise	Meets IESS-308/309 with 3 dB margin
Noise and Spurious	-50 dBc typ. excluding harmonics
Harmonic Content	-3 dBc typical at lower band edge
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	Type N female
RF Output Connection	Type N female
RF Power Monitors	Type-N female, -50 dB nominal
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



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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