Compact Medium Power Amplifier

for EMI/EMC Test and Measurement Applications

The VZS/C-6963J2 Series

Compact HPA, with 250W or 340W Traveling Wave Tube



Compact

Five rack units tall (8.75 in, 222 mm)

Versatile

Ultra-wideband, automatic fault recycle, userfriendly 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.



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SPECIFICATIONS, VZS/C-6963J2

Electrical

OPTIONS: • Input Isolator (-1 dB gain)

• Remote Control Panel

• 115 VAC External Step-Up Transformer

2.0 to 8.0 GHz Frequency

Output Power

TWT 250 W or 340 W min. Flange 225 W or 300 W min.

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.)

12.0 dB pk-pk max. over the

Gain Variation 6.0 GHz bandwidth, typ.

Input VSWR 2.5:1 typ.

1.7:1 max. (with optional input isolator)

Output VSWR

Load VSWR 1.5:1 max. for full spec compliance;

2.0:1 max. continuous operation; any value without damage

220-240 VAC ±10%, single phase,

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

47-63 Hz

Power Consumption 2.6 kVA typ.

Primary Power

3.0 kVA max.

Inrush Current 200% max.

Environmental (Operating)

-10° to +40°C operating **Ambient Temperature** Relative Humidity 95% non-condensing

Altitude Up to 10,000 ft (3000 m) with standard

adiabatic derating of 2°/1000 ft.

Designed to meet conditions normally encountered in the laboratory

Acoustic Noise 65 dBA @ 3 ft. from amplifier

Mechanical

Shock and Vibration

Cooling (TWT) Forced air with integral blower.

Rear air intake and exhaust.

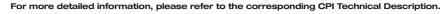
RF Input Connection Type N female **RF Output Connection** Type N female

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





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.

MKT 224, ISSUE 1 09/07 PDF

