Compact Medium Power Amplifier

for Test and Measurement Applications

2.0 to 8.0 GHz

The VZS/C-6963J2 -POBO

300 Watt TWT, Compact Medium Power Amplier.

Compact

Five rack units tall (8.75 in/222 mm).

Versatile

Ultra wide-band, 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 a laboratory environment.

An integral solid state preamplier and IEEE interface are included as standard features.

Power Output

2.0 - 8.0 GHz 300 Watts (min)
2.5 - 7.5 GHz 380 Watts (min)

Global Application

230 VAC operation. Meets International Safety Standard EN61010 and Electromagnetic Compatibility 89/336/EEC.

Easy to Maintain

Modular design and built-in fault diagnostic capability backed by CPI's worldwide 24-hour customer support network that includes 9 regional factory Service Centers.

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INSTRUMENTATION
AMPLIFIERS

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2.0 to 8.0 GHz
300W Compact Medium Power Amplifier

2.0 to 8.0 GHz

SPECIFICATIONS, VZS/C-6963J2-POBO

Electrical

TWT Model Number	VTG6329S1C
Frequency	2.0 to 8.0 GHz
Output Power	
TWT	340W min. (typical 360W)
Flang	300W min. (typical 320W)
Gain	54 dB min. at rated power output; 56 dB min. at small signal
RF Level Adjust	0 to 20 dB
Gain Stability	±0.25 dB/24hr. max. (after 30 min. warmup and at constant drive and temperature)
Gain Variation	12 dB pk-to-pk, typical
Input VSWR	2.5:1 typical 1.7:1 max. (with optional input isolator)
Output VSWR	2.5:1 typical
Load VSWR	1.5:1 max. for full spec compliance; 2.0:1 max. continuous operation; any value for operation 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 typical excluding harmonics
Noise Figure	15 dB max.
Harmonic Content	-3 dBc typical at lower band edge
Primary Power	
Voltage	220-240 VAC ±10%, single phase
Frequency	47-63 Hz
Power Consumption	2.6 kVA typical 3.0 kVA max.
Inrush Current	200% max.

Environmental (Operating)

Ambient Temperature	-10° to +40°C operating
Relative Humidity	95% non-condensing
Altitude	10,000 ft. with standard adiabatic derating of 2°C/1000 ft., operating
Shock and Vibration	As normally encountered in a protected engineering laboratory environment
Acoustic Noise	65 dBA @ 3 ft. from amplifier

Mechanical

Cooling (TWT)	Forced air with integral blower. Rear air intake & exhaust.
RF Connectors	
Input	Type-N female
Output	Type-N female
RF Output Monitor	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/50kg
Safety	EN61010

OPTIONS:

- *Input Isolator (-1 dB gain)*
- *Remote Control Panel*
- *115 VAC External step-up transformer*

ISO 9001

KEEPING YOU ON THE AIR
not up in the air

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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