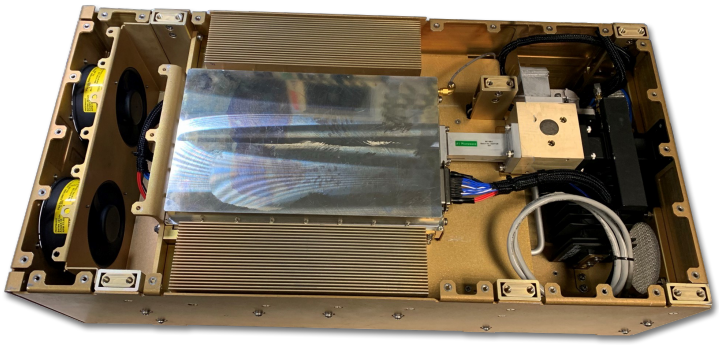
X-Band 1.0 kW Solid-State Power Transmitter

VSX3696ON

CPI Electron Device Business RF Power Transmitter



CPI Electron Device Business'VSX3696ON is an air-cooled 1.0 kW X-band solid-state transmitter optimized for pulsed radars.

X-band solid-state power transmitters are efficient, high-power, and compact with proven GaN transistor technology..

CPI EDB's VSX3696ON solid-state power amplifier is rugged, reliable designed for airborne applications. The VSX3696ON solid-state transmitter is designed for use in radar applications and covers the 9.1 – 10.0 GHz frequency band.

Optimized for Pulsed Radars

This amplifier utilizes GaN transistors to provide high gain, high efficiency and excellent pulse fidelity. The result is excellent AM/PM, phase-noise and spectral regrowth performance.

FEATURES:
- Frequency band: 9.1 – 10.0 GHz
- High efficiency GaN transistors
- Ethernet BIT and controls
- 1000 W pulsed module @ 10% duty

BENEFITS:
- Long life
- High efficiency
- Excellent pulse fidelity
- Low phase noise

APPLICATIONS:
- Pulsed radars
- Airborne radars
- TWTA replacements

CPI Electron Device Business

www.cpi-edb.com

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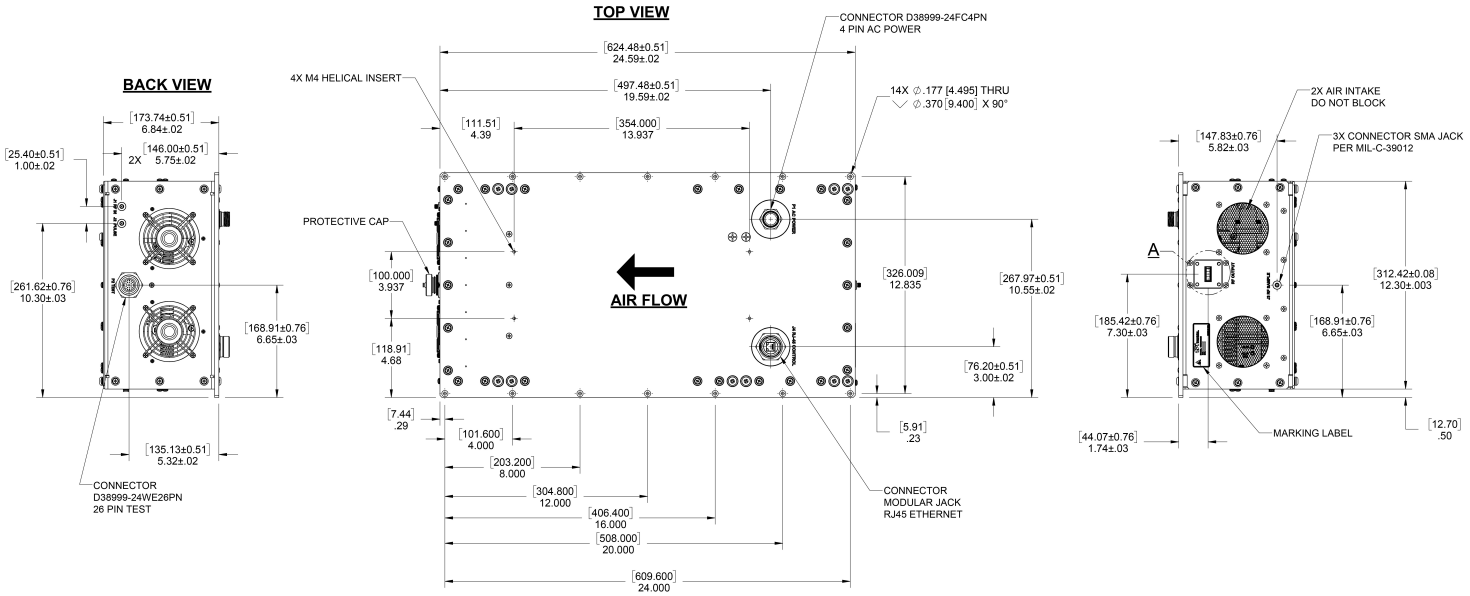


CPI EDB X-Band RF Transmitter: VSX3696ON

Specifications

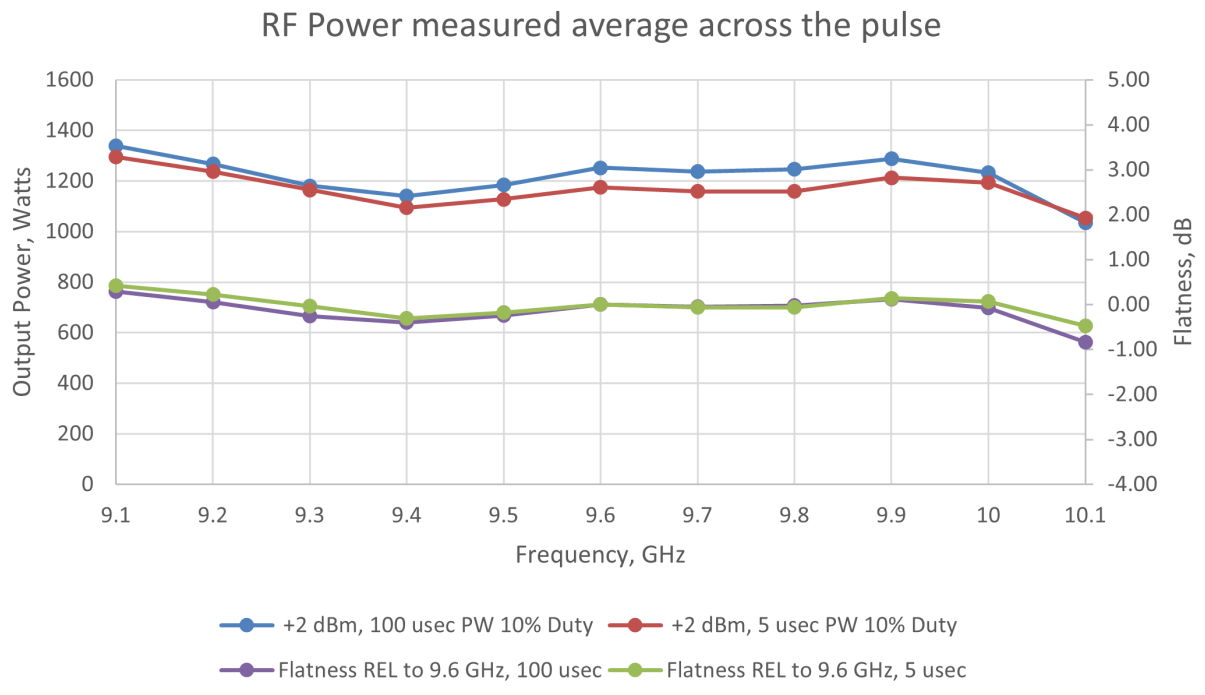
Frequency Range	9.0 to 10.0 GHz
Saturated Peak RF Output	1.0 kW
Typical Pulse Width	5 to 100 µsec
Maximum Duty Cycle	10%
Output Power Flatness	+/-1 dB
Nominal Input Power	3 +/ -2 dBm
Maximum Input VSWR	2.0:1
Maximum Output VSWR	2.0:1
Maximum Harmonic Output	-35 dBc
Maximum Spurious Output	-50 dBc

Specifications

Prime Power	208 VAC Three Phase 400 Hz, 3 amp max per phase
Ambient Temperature	-30ºC to +50ºC operating
Relative Humidity	90% non -condensing
Shock and Vibration	Ruggedized for harsh environments
Cooling	Air-cooled
RF Input Connection	SMA female
RF Output Connection	WR 90

Mechanical

See outline drawing



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