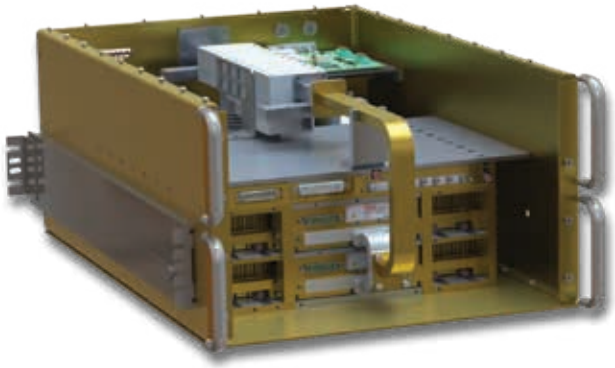
X-Band 2.0 kW GaN High Power Solid State Power Amplifier

VSX3726

Communications & Power Industries RF Power Transmitter



CPI's VSX3726 is a air cooled 2.0 kW X-band solid state power amplifier optimized for pulse radars.

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

CPI's VSX3726 solid state power amplifier is rugged, reliable, and easy to maintain. The VSX3626 solid state transmitter is designed for use in radar applications and covers the 8.9 – 9.0 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: 8.9 – 9.0 GHz
- High efficiency GaN transistors
- BIT and controls
- 2000 W pulsed module @ 5% duty
- 19" Rack compliant

BENEFITS:
- Can be power combined
- Long life
- High efficiency
- Excellent pulse fidelity
- Low AM/PM
- Low phase noise

APPLICATIONS:
- Pulsed radars
- Airborne radars
- TWTA replacements

CPI Communications & Power Industries

www.cpii.com/bmd

CPI X-Band GaN Solid State Power Amplifier: VSX3726

Specifications

Frequency Range	8.9 to 9.0 GHz
Saturated Peak RF Output	2.0 kW nominal
Typical Pulse Width	1 to 100 µsec
Maximum Pulse Droop	1 dB
Maximum Duty Cycle	5%
Output Power Flatness	Dependent on operating bandwidth
Nominal Input Power	0 dB
Maximum Input VSWR	1.5:1
Maximum Output VSWR	2.0:1
Maximum Harmonic Output	-35 dBc
NTIA Compliance	With appropriately shaped input pulse

Output circulator included

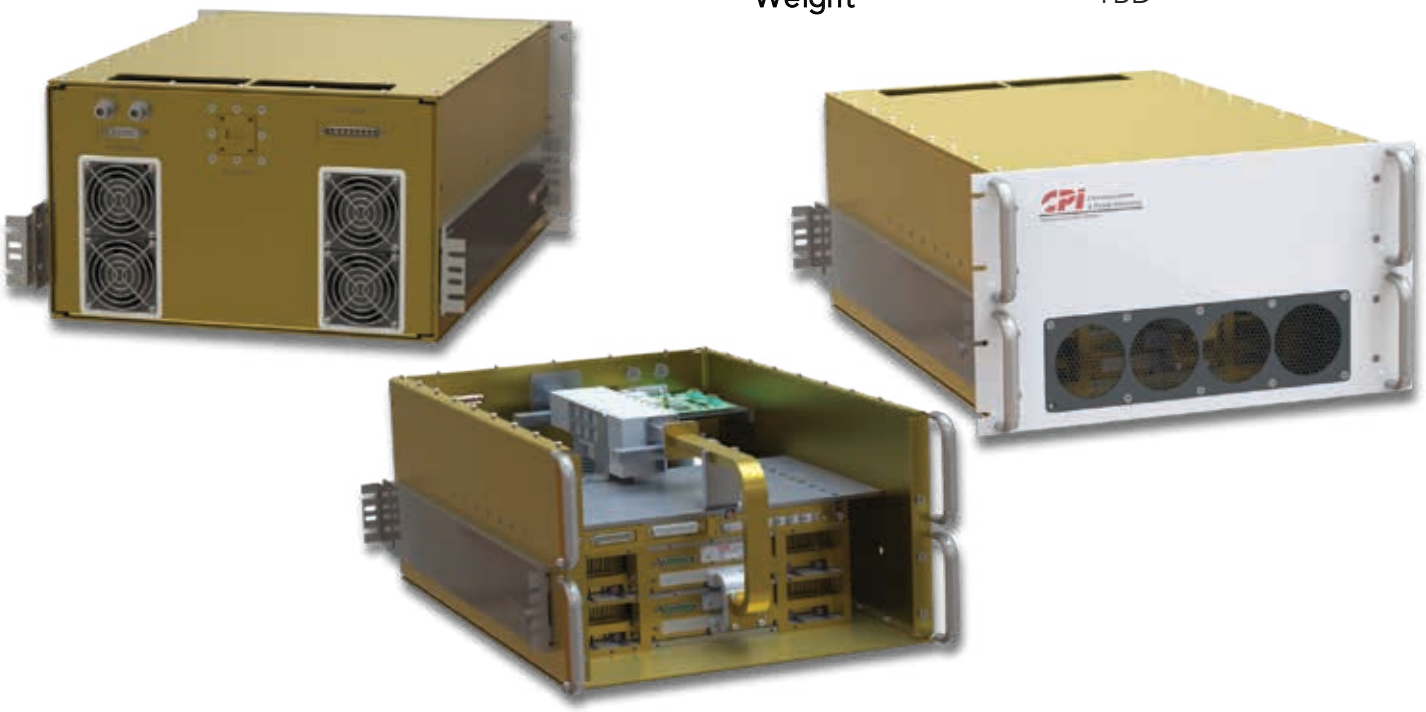
Forward and reverse RF power sample ports included

Specifications

Prime Power	208 single phase
Ambient Temperature	-30C to +50C operating
Relative Humidity	90% non-condensing
Shock and Vibration	Ruggedized for harsh environments
Cooling	Conduction cooled
RF Input Connection	SMA female
RF Output Connection	WR 90

Mechanical (preliminary)

Dimensions (width)	19 in rack mount
Dimensions (height)	7 U with power supply
Dimensions (depth)	26 inch
Weight	TBD



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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. 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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