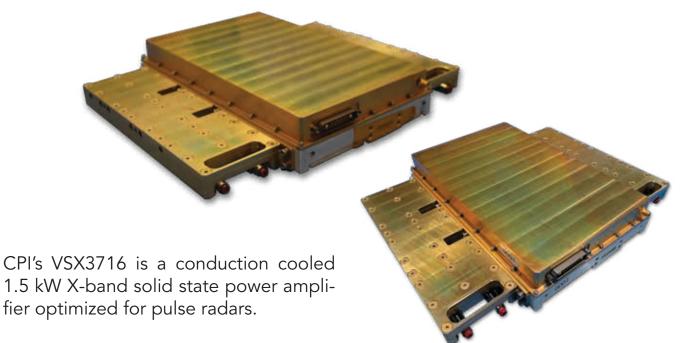
Communications & Power Industries RF Power Amplifier



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

CPI's VSX3716 solid state power amplifier is rugged, reliable, and easy to maintain. The VSX3617 solid state transmitter is designed for use in radar applications and covers the 9.0 – 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: 9.0 10.0 GHz
- High efficiency GaN transistors
- BIT and controls
- 1500 W pulsed module @ 10% duty

BENEFITS:

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

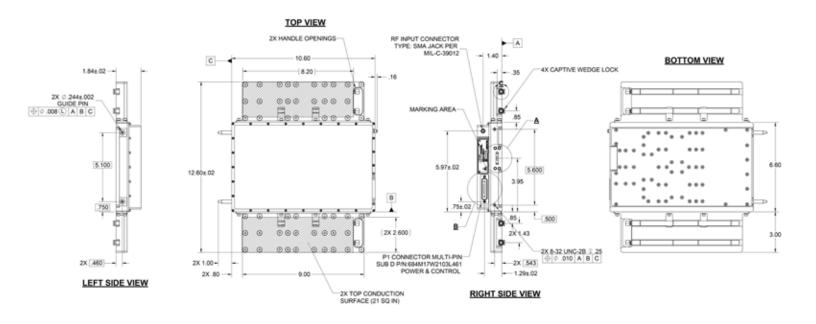
APPLICATIONS:

- Pulsed radars
- Airborne radars
- TWTA replacements



CPI X-Band GaN Solid State Power Amplifier: VSX3716

Specifications		Specifications	
Frequency Range	9.0 to 10.0 GHz	Prime Power	50 VDC
Saturated Peak RF Output	1.5 kW nominal	Ambient Temperature	-30C to +50C operating
Typical Pulse Width	1 to 100 μsec	<u> </u>	
Maximum Pulse Droop	1 dB	Relative Humidity	90% non-condensing
Maximum Duty Cycle	10%	Shock and Vibration	Ruggedized for harsh environments
Output Power Flatness	Dependent on operating bandwidth	Cooling	Conduction cooled
Nominal Small Signal Gain	58 dB	RF Input Connection	SMA female
Maximum Input VSWR	1.5:1	RF Output Connection	Half-height WR90
Maximum Output VSWR	2.0:1		
Maximum Harmonic Output	-35 dBc	Mechanical	
NTIA Compliance	With appropriately shaped input pulse	Dimensions (width)	12.6 in (32.0 cm)
		Dimensions (height)	1.84 in (4.763cm)
		Dimensions (depth)	10.6 in (26.9cm)
		Weight	2 lbs. (5.44 kg) max.





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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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