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X-Band GaN 1.0 kW Solid State Power Amplifier

VSX3695

Features:

- Frequency band: 9.0 10.0 GHz
- High efficiency GaN transistors
- BIT and controls
- 1000 W pulsed module @ 10% duty

Benefits:

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

CPI-Built RF Power Modules

X-band Solid State Power transmitters are efficient, high power, and compact with proven GaN transistor technology.

CPI's VSX3695 Solid State Power amplifier is rugged, reliable, and easy to maintain. The VSX3695 Solid State Power Transmitter is designed for use in radar applications and covers the 9.0 – 10.0 GHz frequency band.





- Pulsed radars
- Airborne radars
- TWTA replacements

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.

Solid State Power Amplifiers • Integrated Microwave Assemblies
 Receiver Protectors • Control Components • Transmitters • Amplifiers

 Modulators • Magnetrons • Crossed Field Amplifiers
 Ring Loop Traveling Wave Tubes • Power Couplers



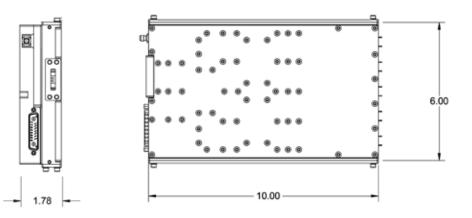


X-Band GaN Solid State Power Amplifier - VSX3695

Specifications	
Frequency Range	9.0 to 10.0 GHz
Saturated Peak RF Output	1000 W
Typical Pulse Width	1 to 100 µsec
Maximum Pulse Droop	0.6 dB
Maximum Duty Cycle	10%
Output Power Flatness	Dependent on operating bandwidth
Nominal Small Signal Gain	58 dB
Maximum Input VSWR	1.5:1
Maximum Output VSWR	1.5:1
Maximum Harmonic Output	-35 dBc
Maximum Interpulse Thermal Noise	-100 dBc/Mhz
Noise Power Density	-90 dBc into a 100 MHz
	bandwidth
NTIA Compliance	With appropriately shaped input pulse

Specifications		
Prime Power	50 VDC	
Ambient Temperature	-30C to +50C operating	
Relative Humidity	90% non-condensing	
Shock and Vibration	Ruggedized for harsh environments	
Cooling	Forced air	
RF Input Connection	SMA female	
RF Output Connection	Half-height WR90	
Mechanical		
Dimensions (width)	6.0 in (15.24 cm)	
	1.0 in (1.570 on)	

Dimensions (width)	0.0 III (15.24 CIII)
Dimensions (height)	1.8 in (4.572 cm)
Dimensions (depth)	10.0 in (25.4 cm)
Weight	9 lbs. (4.08 kg) max.



The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.

For information on this and other CPI products visit our webpage at www.cpii.com/BMD, or contact: CPI Beverly Microwave Division, +1 (978) 922-6000 • FAX: +1 (978) 922-8914 • BMDmarketing@cpii.com