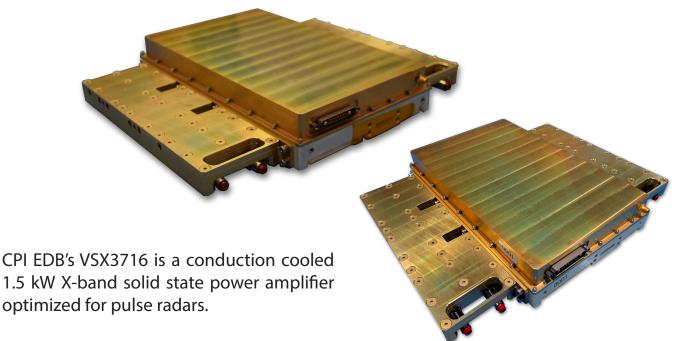
## **CPI Electron Device Business - RF Power Amplifier**



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

CPI EDB'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:**

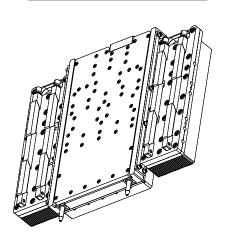
- Pulsed radars
- Airborne radars
- TWTA replacements



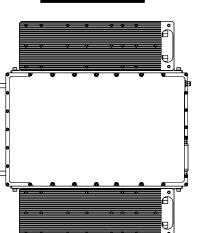
# CPI EDB X-Band GaN Solid State Power Amplifier: VSX3716

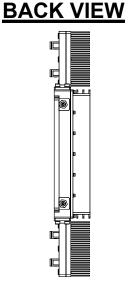
Specifications		Specifications	
Frequency Range	9.0 to 10.0 GHz	Prime Power	50 VDC
Saturated Peak RF Output	1.5 kW nominal	 _ Ambient Temperature	-30C to +50C operating
Typical Pulse Width	1 to 100 μsec		
Maximum Pulse Droop	1 dB	- Relative Humidity	90% non -condensing
Maximum Duty Cycle	10%	Shock and 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.

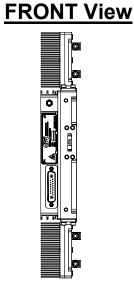
### **ISOMETRIC VIEW**



## **TOP VIEW**









**Beverly Microwave** Division 150 Sohier Road Beverly, Massachusetts USA 01915

+1 978-922-6000 tel

email ElectronDevices@cpi-edb.com

+1 978-922-8914 fax web www.cpi-edb.com For more detailed information, please refer to the corresponding CPI EDB technical description if one has been published, or contact CPI EDB. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI EDB before using this information for system design.

©2024 CPI Electron Device Business. Company proprietary: use and reproduction is strictly prohibited without written authorization from CPI EDB.