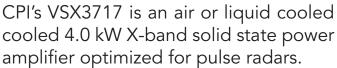
Communications & Power Industries RF Power Transmitter





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

CPI's VSX3717 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.



- Frequency band: 9.0 10.0 GHz
- High efficiency GaN transistors
- BIT and controls
- 4000 W pulsed module @ 10% duty

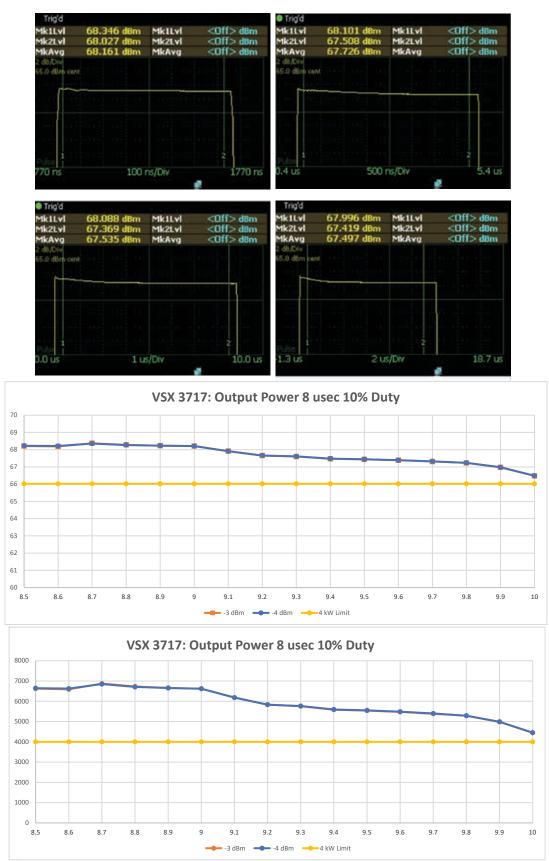
BENEFITS:

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

APPLICATIONS:

- Pulsed radars
- Airborne radars
- TWTA replacements



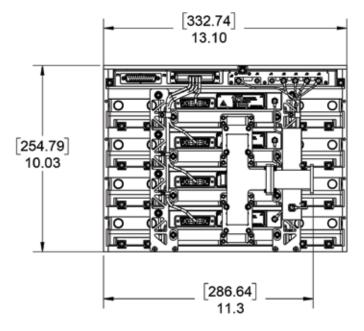


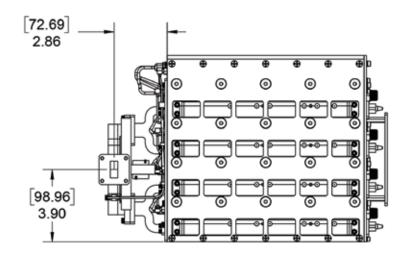


CPI X-Band RF Transmitter: VSX3717

Specifications	
Frequency Range	9.0 to 10.0 GHz
Saturated Peak RF Output	4.0 kW nominal
Typical Pulse Width	1 to 100 μsec
Maximum Pulse Droop	1 dB
Maximum Duty Cycle	10%
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

Specifications	
Prime Power	50.5 VDC @ 65 A nominal 70 A max
Ambient Temperature	-30°C to +50°C operating
Relative Humidity	90% non-condensing
Shock and Vibration	Ruggedized for harsh environments
Cooling	Air or liquid cooled
RF Input Connection	SMA female
RF Output Connection	WR 90
Mechanical	
See outline drawing	







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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. system design.

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