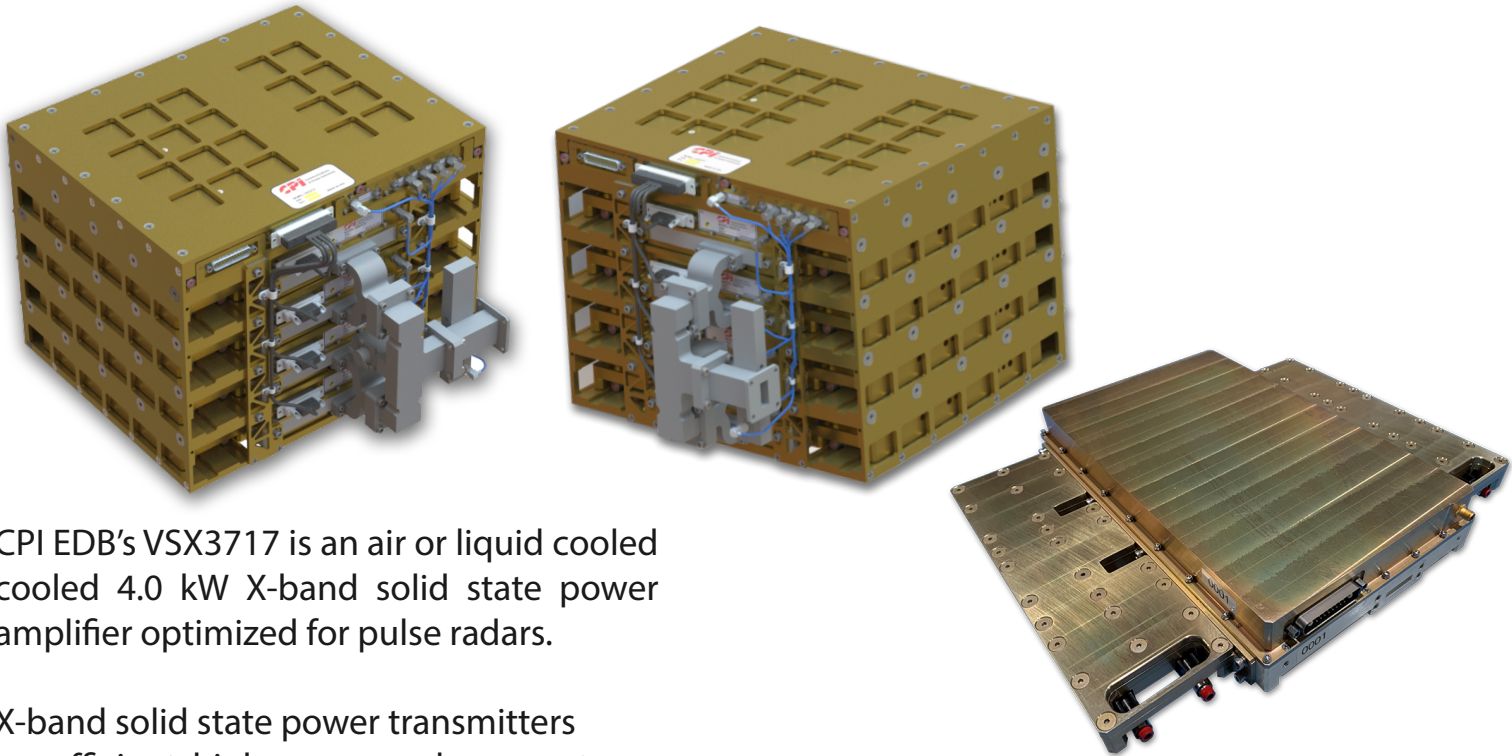


CPI Electron Device Business - RF Power Transmitter



CPI EDB's VSX3717 is an air or liquid cooled cooled 4.0 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 EDB'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.

FEATURES:

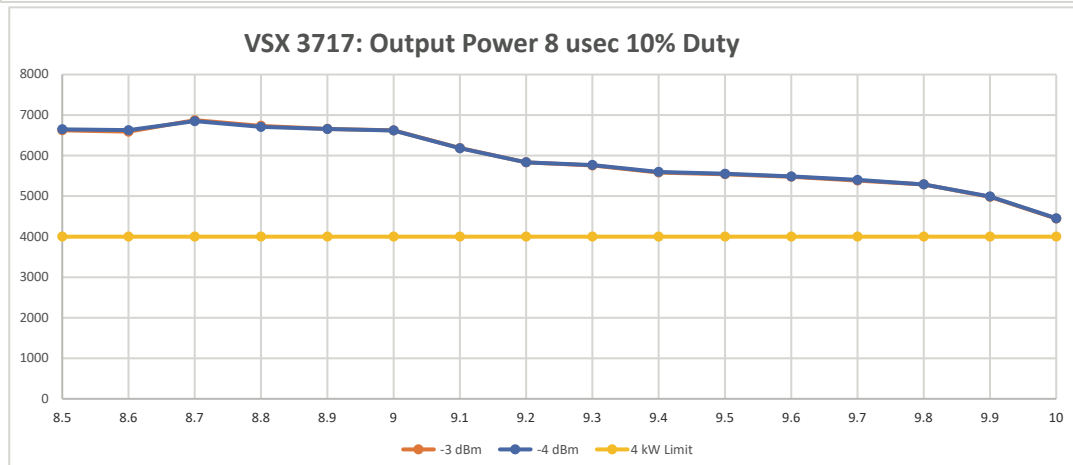
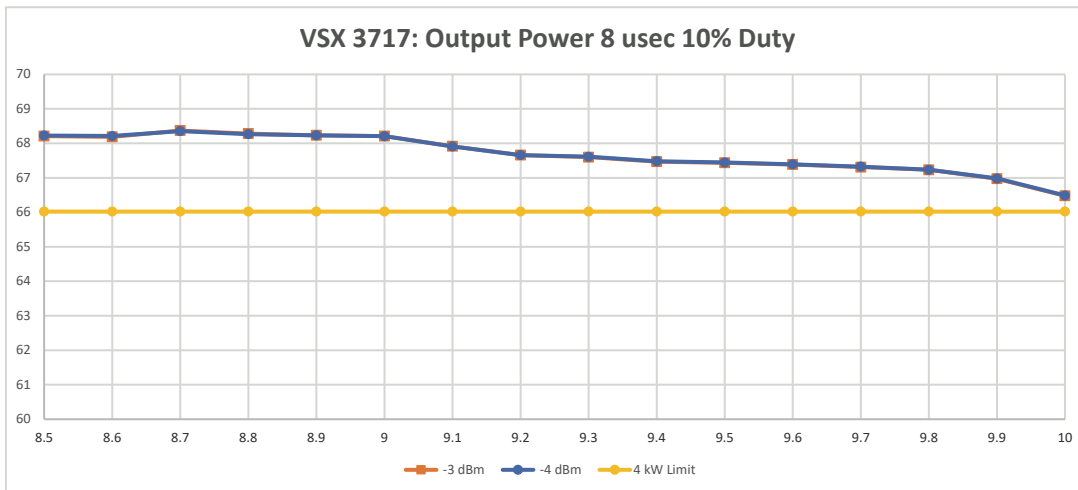
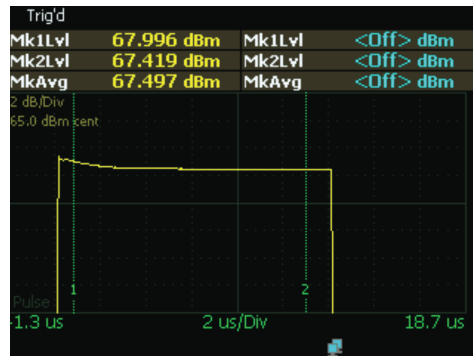
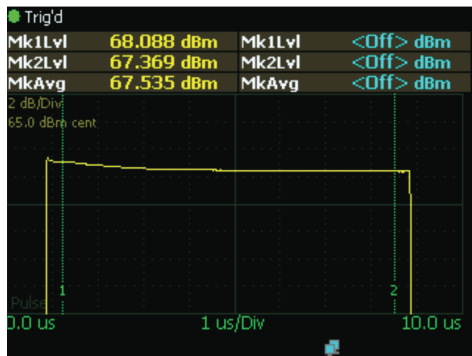
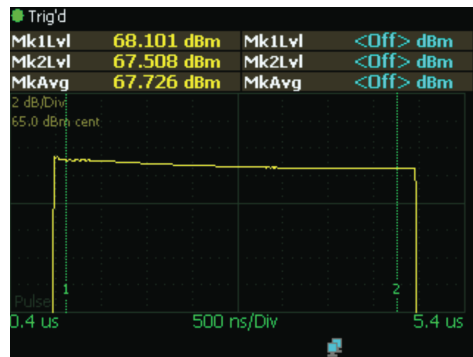
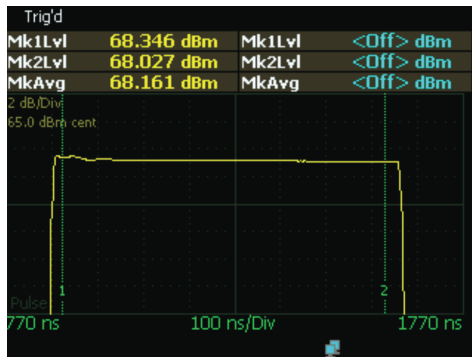
- Frequency band: 9.0 – 10.0 GHz
- High efficiency GaN transistors
- BIT and controls
- 4000 W pulsed module @ 10% duty

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 EDB X-Band RF Transmitter: VSX3717

Specifications

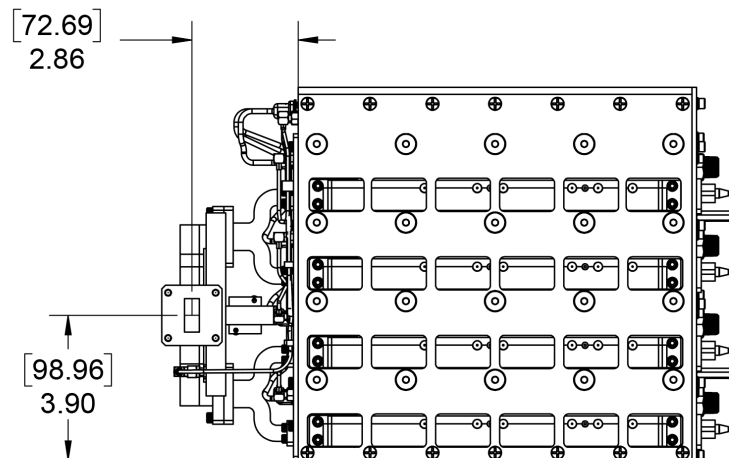
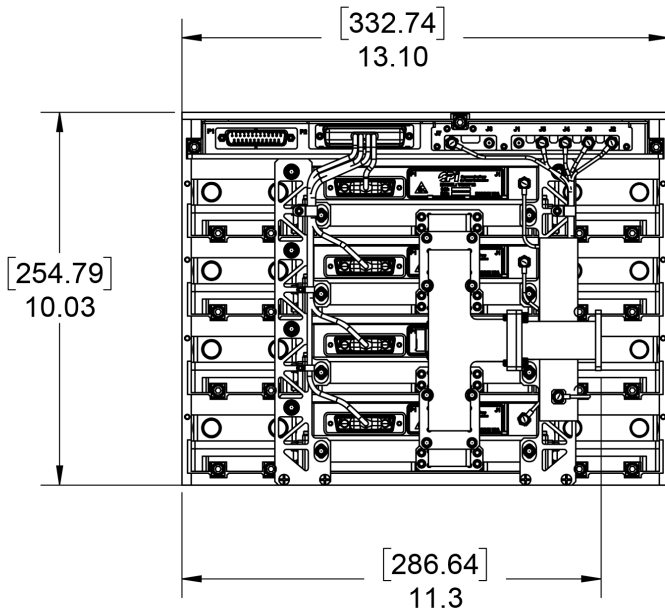
Frequency Range	9.0 to 10.0 GHz
Saturated Peak RF Output	4.0 kW nominal
Typical Pulse Width	1 to 100 μ sec
Maximum Pulse Droop	1 dB
Maximum Duty Cycle	10%
Output Power Flatness	Dependent on operating bandwidth
Nominal Input Power	0 dB
Maximum Input VSWR	1.5:1
Maximum Output VSWR	2.0:1
Maximum Harmonic 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 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.

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