Communications & Power Industries CCTWT

The VTX-5783E pulsed-coupled cavity TWT covers 8.6 GHz to 9.5 GHz with 40 kW peak output power, 1.0 % duty cycle. This device has a non-intercepting grid pulsed and single stage depressed collector to achieve 48 dB gain.

Custom configurations are also available. These variations in the performance and configuration include: cooling method (affects average power level), mechanical configuration, electrical and RF connections, & multiple stage depressed collector.

Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800.

Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-34	-31	kV
Cathode Current		9.0	а
Heater Voltage	9	11	V
Heater Current		6	А
Collector Voltage	19	22	kV
Grid Bias Voltage	-450	-350	V
Grid Pulse Voltage	300	450	V
RF Drive Power		0.5	W
Pulse Width		50	µsec
Duty Cycle		1.0	. %
Cooling Flow Rate	3.0		lbm/min
Pressure Drop		3.5	In H ² O
Weight		16	lbs
Dimensions		5 X5X 18	inches

FEATURES:

- 8.6 GHz to 9.5 GHz
- 40 kW Peak output power
- 1.0% Duty cycle
- Non-intercepting grid pulsed
- 48 dB gain
- Single stage depressed collector
- Forced air cooled
- PPM focused
- WR 90 waveguide, input and output

BENEFITS:

- Efficient
- Bandwidth
- Over 40 years of technical expertise

APPLICATIONS:

• Ground radars



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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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