# **Communications & Power Industries CCTWT**

The VTX-5783G pulsed-coupled cavity TWT covers 9.35GHz to 10.1GHz with 50 kW peak output power, 1.0 % duty cycle. This device has a non-intercepting grid pulsed and dual stage depressed collector to achieve 49 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, & single stage depressed

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		8.5	а
Heater Voltage	9	11	V
Heater Current		6	Α
Collector #1 Voltage	18	20	kV
Collector #2 Voltage	13	15	kV
Grid Bias Voltage	-550	-450	V
Grid Pulse Voltage	300	450	V
RF Drive Power		0.5	W
Pulse Width		50	μsec
Duty Cycle		1.0	. %
Cooling Flow Rate	4.0		lbm/mn
Pressure Drop		3.0	In H <sup>2</sup> O
Weight		19	lbs
Dimensions		5x5x18	inches

- 9.35 GHz to 10.1 GHz
- 50 kW Peak output power
- 1.0 % Duty cycle
- Non-intercepting grid pulsed
- 49 dB gain
- Dual 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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