

Communications & Power Industries CCTWT

The VTX-5786D pulsed-coupled cavity TWT covers 8.6 GHz to 9.5 GHz with 25 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	-27	-25	kV
Cathode Current	---	7.0	a
Heater Voltage	9	11	V
Heater Current	---	4	A
Collector Voltage	17	20	kV
Grid Bias Voltage	-400	-300	V
Grid Pulse Voltage	300	450	v
RF Drive Power	---	0.25	W
Pulse Width	---	50	µsec
Duty Cycle	---	1.0	%
Cooling Flow Rate	2.0	---	lbm/min
Pressure Drop	---	2.5	In H ² O
Weight	---	16	lbs
Dimensions	---	5 X5X 18	inches

FEATURES:

- 8.6 GHz to 9.5 GHz
- 25 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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