

Communications & Power Industries CCTWT

The VTX-5786E pulsed-coupled cavity TWT covers 9.5 GHz to 10.0 GHz with 1.0 kW peak output power, 50 % duty cycle. This device has a non intercepting grid pulsed and single stage depressed collector to achieve 47 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	UNIT S
Cathode Voltage	-12	-11	kV
Cathode Current	---	1	a
Heater Voltage	6	8	V
Heater Current	---	3	A
Collector Voltage	8	9	kV
Grid Bias Voltage	-250	-300	V
Grid Pulse Voltage	220	320	v
RF Drive Power	---	.03	mW
Pulse Width	---	50	µsec
Duty Cycle	---	30	%
Cooling Flow Rate	2	---	gpm
Pressure Drop	---	15	psi
Weight	---	12	lbs
Dimensions	---	4 dia X 16 lg	inches

FEATURES:

- 9.5 GHz to 10.0 GHz
- 1.0 kW Peak output power
- 50% Duty cycle
- Non intercepting grid pulsed
- 47 dB gain
- Single stage depressed collector
- Forced liquid 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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