

## 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](mailto: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	a
Heater Voltage	9	11	V
Heater Current	---	6	A
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 <sup>2</sup> 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