

Communications & Power Industries CCTWT

The VTX-5783B pulsed-coupled cavity TWT covers 8.9 GHz to 9.4 GHz with 50 kW peak output power, 2.5 % 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	-32	kV
Cathode Current	---	8.5	a
Heater Voltage	9	11	V
Heater Current	---	6	A
Collector Voltage	20	23	kV
Grid Bias Voltage	-550	-450	V
Grid Pulse Voltage	300	450	v
RF Drive Power	---	0.75	W
Pulse Width	---	50	µsec
Duty Cycle	---	2.5	%
Cooling Flow Rate	3.5	---	gpm
Pressure Drop	---	25	psi
Weight	---	24	lbs
Dimensions	---	5 X5X 20	inches

FEATURES:

- 8.9 GHz to 9.4 GHz
- 50 kW Peak output power
- 2.5% Duty cycle
- Non-intercepting grid pulsed
- 48 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