

Communications & Power Industries CCTWT

The VTC-5760B pulsed-coupled cavity TWT covers 5.4 GHz to 5.9 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 4.7 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	---	10	a
Heater Voltage	8	10	V
Heater Current	---	8	A
Collector Voltage	19	22	kV
Grid Bias Voltage	-550	-450	V
Grid Pulse Voltage	350	500	v
RF Drive Power	---	0.50	W
Pulse Width	---	100	µsec
Duty Cycle	---	2.5	%
Cooling Flow Rate	3.5	---	gpm
Pressure Drop	---	40	psig
Weight	---	45	lbs
Dimensions	---	6x6x40	inches

FEATURES:

- 5.4 GHz to 5.9 GHz
- 50 kW Peak output power
- 2.5% Duty cycle
- Non-intercepting grid pulsed
- 47 dB gain
- Single stage depressed collector
- Forced liquid cooled
- PPM focused
- Coaxial input, WR 187 waveguide output

BENEFITS:

- Efficient
- Bandwidth
- Over 40 years of technical expertise

APPLICATIONS:

- Ground radars