

Communications & Power Industries CCTWT

The VTC-5767A pulsed-coupled cavity TWT covers 5.4 GHz to 5.9 GHz with 20 kW peak output power, 2.5% duty cycle. This device has a non-intercepting grid pulsed and single stage depressed collector to achieve 43 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	-26	-24	kV
Cathode Current	---	6	a
Heater Voltage	8	10	V
Heater Current	---	5	A
Collector Voltage	18	21	kV
Grid Bias Voltage	-450	-350	V
Grid Pulse Voltage	250	400	v
RF Drive Power	---	1.0	W
Pulse Width	---	30	μsec
Duty Cycle	---	2.5	%
Cooling Flow Rate	4.0	---	lbm/min
Pressure Drop	---	4.0	In H ² O
Weight	---	45	lbs
Dimensions	---	8 DIA X 40 LG	inches

FEATURES:

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

BENEFITS:

- Efficient
- Bandwidth
- Over 40 years of technical expertise

APPLICATIONS:

- Ground radars