

Communications & Power Industries CCTWT

The VTC-5762A pulsed-coupled cavity TWT covers 5.4 GHz to 5.9 GHz with 12 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	-25	-22	kV
Cathode Current	---	4.0	a
Heater Voltage	8	10	V
Heater Current	---	4	A
Collector Voltage	16	19	kV
Grid Bias Voltage	-300	-400	V
Grid Pulse Voltage	150	250	v
RF Drive Power	---	0.25	W
Pulse Width	---	100	μsec
Duty Cycle	---	2.5	%
Cooling Flow Rate	4.0	---	lbm
Pressure Drop	---	4.0	In H ² O
Weight	---	40	lbs
Dimensions	---	8 Dia X 37 Lg	inches

FEATURES:

- 5.4 GHz to 5.9 GHz
- 12 kW Peak output power
- 2.5% Duty cycle
- Non-intercepting grid pulsed
- 48 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