

Communications & Power Industries CCTWT

The VTC-5764B pulsed-coupled cavity TWT covers 5.25 GHz to 5.75 GHz with 200 kW peak output power, 5.0% duty cycle. This device has a non-intercepting grid pulsed and single stage depressed collector to achieve 47 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	-50	-47	kV
Cathode Current	---	16	a
Heater Voltage	8	10	V
Heater Current	---	10	A
Collector Voltage	37	40	kV
Grid Bias Voltage	-850	-750	V
Grid Pulse Voltage	800	1000	v
Solenoid Voltage	---	150	V
Solenoid Current	---	30	A
RF Drive Power	---	1.0	W
Pulse Width	---	100	μsec
Duty Cycle	---	5.0	%
Cooling Flow Rate	14.0	---	gpm
Pressure Drop	---	50	psig
Weight	---	400	lbs
Dimensions	---	14 Dia X 44 L	inches

FEATURES:

- 5.25 GHz to 5.75 GHz
- 200 kW Peak output power
- 5.0% Duty cycle
- Non-intercepting grid pulsed
- 47 dB gain
- Single stage depressed collector
- Forced liquid cooled
- Solenoid focused
- Coaxial input, WR 187 waveguide output

BENEFITS:

- Efficient
- Bandwidth
- Over 40 years of technical expertise

APPLICATIONS:

- Ground radars