

## Communications & Power Industries CCTWT

The VTC-5764C pulsed-coupled cavity TWT covers 5.25 GHz to 5.75 GHz with 200 kW peak output power, 1.0 % 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](mailto: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
RF Drive Power	---	1.0	W
Pulse Width	---	100	µsec
Duty Cycle	---	1.0	%
Cooling Flow Rate	4.0	---	gpm
Pressure Drop	---	50	psig
Weight	---	60	lbs
Dimensions	---	8 X8X 44	inches

### FEATURES:

- 5.25 GHz to 5.75 GHz
- 200 kW Peak output power
- 1.0 % 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



**Microwave Power Products Division**  
 3120 Hansen Way  
 Palo Alto, California  
 USA 94303

tel +1 650-846-2800  
 fax +1 650-856-0705  
 email [MPPMarketing@cpii.com](mailto:MPPMarketing@cpii.com)  
 web [www.cpii.com/MPP](http://www.cpii.com/MPP)

For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

©2020 Communications & Power Industries LLC. Company proprietary; use and reproduction is strictly prohibited without written authorization from CPI.