# **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 +1650-846-2800.

## Typical Operating Parameters

PARAMETER Cathode Voltage Cathode Current Heater Voltage Heater Current Collector Voltage Grid Bias Voltage Grid Pulse Voltage Solenoid Voltage Solenoid Current RF Drive Power Pulse Width Duty Cycle Cooling Flow Rate Pressure Drop Weight	MIN -50  8  37 -850 800    14.0 	MAX -47 16 10 40 -750 1000 150 30 1.0 100 5.0  50 400	UNITS kV a V A kV V V V V A W usec % gpm psig bs
Vielgnt Dimensions		400 14 Dia X 44 L	inches

- 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



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

+1 650-846-2800 fax +1 650-856-0705 email MPPMarketing@cpii.com web www.cpii.com/MPP

tel

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.

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