

## Communications & Power Industries CCTWT

The VTC-5765C pulsed-coupled cavity TWT covers 5.25 GHz to 5.75 GHz with 75 kW peak output power, 2.0 % 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	-39	-37	kV
Cathode Current	---	12	a
Heater Voltage	8	10	V
Heater Current	---	8	A
Collector Voltage	25	28	kV
Grid Bias Voltage	-550	-450	V
Grid Pulse Voltage	350	500	v
RF Drive Power	---	0.75	W
Pulse Width	---	100	µsec
Duty Cycle	---	2.0	%
Cooling Flow Rate	3.5	---	gpm
Pressure Drop	---	40	psig
Weight	---	55	lbs
Dimensions	---	6 X6X 40	inches

### FEATURES:

- 5.25 GHz to 5.75 GHz
- 75 kW Peak output power
- 2.0% Duty cycle
- Non-intercepting grid pulsed
- 47 dB gain
- Single stage depressed collector
- Forced liquid cooled
- PPM focused
- Coaxial input, WR 187 waveguide outp

### 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.

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