

## Communications & Power Industries CCTWT

The VTC-5765B pulsed-coupled cavity TWT produces 75 kW of peak output power over 5.4 GHz to 5.9 GHz at a duty cycle of up to 1%. This device is ppm focused, non-intercepting grid pulsed, and has a single stage depressed collector. This TWT is forced air cooled.

Custom configurations are also available. These variations include: cooling method (affects average power level), mechanical configuration, electrical and RF connections, and a 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	---	1	%
Cooling Flow Rate	4.0	---	lb/min
Pressure Drop	---	3.5	In H <sup>2</sup> O
Weight	---	45	lbs
Dimensions	---	6 X6X 40	inches

### FEATURES:

- 5.4 GHz to 5.9 GHz
- 75 kW Peak output power
- 1% Duty cycle
- Non-intercepting grid pulsed
- 47 dB gain
- Single stage depressed collector
- Forced air cooled
- PPM focused
- Coaxial input, WR 187 waveguide output

### BENEFITS:

- XXXXXXXXXXXX • Efficient
- Bandwidth
- Over 40 years of technical expertise

### APPLICATIONS:

- Ground radars



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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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