

Communications & Power Industries CCTWT

The VTC-5765A 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 2%. This device is ppm focused, non-intercepting grid pulsed, and has a single stage depressed collector.

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 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:

- 5.4 GHz to 5.9 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 output

BENEFITS:

- 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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