

## Communications & Power Industries CCTWT

The VTC-5764A pulsed-coupled cavity TWT covers 5.4 GHz to 5.7 GHz with 30 kW peak output power, 2.5% duty cycle. This device has a non-intercepting grid pulsed electron gun and single stage depressed collector. The device has 47 dB of 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	-28	-25	kV
Cathode Current	---	7.0	a
Heater Voltage	8	10	V
Heater Current	---	4	A
Collector Voltage	16	20	kV
Grid Bias Voltage	-450	-350	V
Grid Pulse Voltage	250	400	v
Solenoid Voltage	---	150	V
Solenoid Current	---	35	A
RF Drive Power	---	2.0	W
Pulse Width	---	300	µsec
Duty Cycle	---	2.5	%
Cooling Flow Rate	12.0	---	gpm
Pressure Drop	---	40	psig
Weight	---	300	lbs
Dimensions	---	12 Dia X 40 Lg	inches

### FEATURES:

- 5.4 GHz to 5.7 GHz
- 30 kW Peak output power
- 2.5% 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



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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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