

## Communications & Power Industries CCTWT

The VTC-5763A pulsed-coupled cavity TWT covers 5.25 GHz to 5.75 GHz with 120 kW peak output power, 10 % 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	-45	-42	kV
Cathode Current	---	13	a
Heater Voltage	8	10	V
Heater Current	---	10	A
Collector Voltage	32	35	kV
Grid Bias Voltage	-550	-500	V
Grid Pulse Voltage	600	900	v
Solenoid Voltage	---	150	V
Solenoid Current	---	30	A
RF Drive Power	---	2.0	W
Pulse Width	---	100	μsec
Duty Cycle	---	10	%
Cooling Flow Rate	14.0	---	gpm
Pressure Drop	---	50	psig
Weight	---	400	lbs
Dimensions	---	14 Dia X 54 Lg	inches

### FEATURES:

- 5.25 GHz to 5.75 GHz
- 120 kW Peak output power
- 10 % 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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