

Communications & Power Industries CCTWT

The VTC-5765D pulsed-coupled cavity TWT covers 5.25 GHz to 5.75 GHz with 100 kW peak output power, 2.0% duty cycle. This device has a non-intercepting grid pulsed and single stage depressed collector to achieve 40 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 or call us at +1 650-846-2800.

Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-45	-43	kV
Cathode Current	---	14	a
Heater Voltage	8	10	V
Heater Current	---	8	A
Collector Voltage	25	28	kV
Grid Bias Voltage	-550	-450	V
Grid Pulse Voltage	450	600	v
RF Drive Power	---	4.0	W
Pulse Width	---	50	µsec
Duty Cycle	---	2.0	%
Cooling Flow Rate	5.0	---	gpm
Pressure Drop	---	50	psig
Weight	---	55	lbs
Dimensions	---	6 X8X 40	inches

FEATURES:

- 5.25 GHz to 5.75 GHz
- 100 kW Peak output power
- 2.0% Duty cycle
- Non-intercepting grid pulsed
- 40 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