

# VTC-5765A Pulsed Coupled Cavity TWT

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.

## Typical Operating Parameters

### 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

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

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.

For additional information on CPI MPP products contact:

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