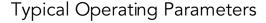
## Communications & Power Industries CCTWT

The VTS-5754G pulsed-coupled cavity TWT covers 2.7 GHz to 3.1 GHz with 160 kW peak output power, up to 6% duty cycle. This device has a non-intercepting grid pulsed and single stage depressed collector to achieve 48 dB gain. This device is capable of parallel operation from a common HV power supply, phase tracking is better than +/- 20 degrees. The long life CD coated cathode is capable of pulse width to 200 micro seconds





PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-46	-43	kV
Cathode Current	14	17	а
Heater Voltage	8	11	V
Heater Current	6	11	Α
Collector Voltage	27	30	kV
Grid Bias Voltage	-700	-600	V
Grid Pulse Voltage	600	800	V
RF Drive Power		2.0	W
Pulse Width		100	μsec
Duty Cycle		2.0	' %
Collector Flow Rate		6.0	Gpm
Cooling Flow Rate		3.5	Gpm
Collector Pressure Drop		25	psig
Body Pressu re Drop		42	psig
Weight		150	lbs
Dimensions		12 X15X 54	inches



- 2.7 GHz to 3.1 GHz
- 160 kW Peak output power
- Up to 6% duty cycle
- Non-intercepting grid pulsed
- 47 db gain
- Single stage depressed collector
- Forced liquid cooled
- PPM focused
- Coaxial type-n-input, CPR 284 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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