# Communications & Power Industries CCTWT

The VTS-5754F pulsed coupled cavity TWT covers 3.1 GHz to 3.6 GHz with 160 kW peak output power, up to 8% 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 in this PPM focused TWT.



Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800.

## Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-46	-44	kV
Cathode Current	15	19	а
Heater Voltage	8	11	V
Heater Current	6	11	Α
Collector Voltage	27	39	kV
Grid Bias Voltage	-700	-600	V
Grid Pulse Voltage	600	1000	V
RF Drive Power		2.0	W
Pulse Width		220	μsec
Duty Cycle		8.0	. %
Collector Flow Rate		7.0	Gpm
Cooling Flow Rate		5.0	Gpm
Collector Pressure Drop		40	psig
Body Pressu re Drop		60	psig
Weight		150	lbs
Dimensions		11 X14X 55	inches

- 3.1 GHz to 3.6 GHz
- 160 kW Peak output power
- Up to 8% 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

### **BENEFITS:**

- Ffficient
- Bandwidth
- Over 40 years of technical expertise

## **APPLICATIONS:**

Ground radars



Microwave Power **Products Division** 3120 Hansen Way Palo Alto, California USA 94303

tel +1 650-846-2800 +1 650-856-0705 email MPPMarketing@cpii.com web www.cpii.com/MPP

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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