Communications & Power Industries CCTWT

The VTS-5755 pulsed coupled cavity TWT covers 2.7 GHz to 3.1 GHz with 60 kW peak output power, up to 16% duty cycle. This solenoid focused device has a nonintercepting grid pulsed and single stage depressed collector to achieve 50 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 50 micro seconds in this PPM focused, air cooled TWT.



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

Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-33	-30	kV
Cathode Current	8	10	а
Heater Voltage	8	11	V
Heater Current	6	11	Α
Collector Voltage	20	22	kV
Grid Bias Voltage	-400	-600	V
Grid Pulse Voltage	350	600	V
RF Drive Power		0.5	W
Pulse Width		40	μsec
Duty Cycle		2.4	' %
Air Flow Rate	13	14	Lbs/min
Pressure Drop		5	inches
Weight		80	lbs
Dimensions		12 X15X47	inches

- 2.7 GHz to 3.1 GHz
- 60 kW Peak output power
- Up to 2.4% duty cycle
- Non-intercepting grid pulsed
- 50 dB gain
- Single stage depressed collector
- Forced air 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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