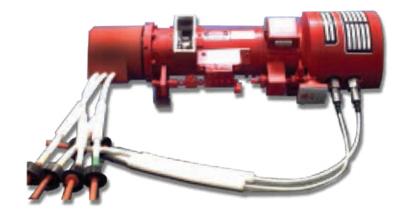
Communications & Power Industries CCTWT

The VTX-5783G pulsed-coupled cavity TWT covers 9.35GHz to 10.1GHz with 50 kW peak output power, 1.0% duty cycle. This device has a non-intercepting grid pulsed and dual stage depressed collector to achieve 49 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, & single stage depressed

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



Typical Operating Parameters

| PARAMETER | MIN | MAX | UNITS |
|----------------------|------|--------|---------------------|
| Cathode Voltage | -34 | -31 | kV |
| Cathode Current | | 8.5 | a |
| Heater Voltage | 9 | 11 | V |
| Heater Current | | 6 | Α |
| Collector #1 Voltage | 18 | 20 | kV |
| Collector #2 Voltage | 13 | 15 | kV |
| Grid Bias Voltage | -550 | -450 | V |
| Grid Pulse Voltage | 300 | 450 | V |
| RF Drive Power | | 0.5 | W |
| Pulse Width | | 50 | μsec |
| Duty Cycle | | 1.0 | . % |
| Cooling Flow Rate | 4.0 | | lbm/mn |
| Pressure Drop | | 3.0 | In H ² O |
| Weight . | | 19 | lbs |
| Dimensions | | 5x5x18 | inches |
| | | | |

- 9.35 GHz to 10.1 GHz
- 50 kW Peak output power
- 1.0% Duty cycle
- Non-intercepting grid pulsed
- 49 dB gain
- Dual stage depressed collector
- Forced air cooled
- PPM focused
- WR 90 waveguide input and 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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