Communications & Power Industries CCTWT

The VTC-5760B pulsed-coupled cavity TWT covers 5.4 GHz to 5.9 GHz with 50 kW peak output power, 2.5% duty cycle. This device has a non-intercepting grid pulsed and single stage depressed collector to achieve 4.7 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, & multiple stage depressed collector.

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

Typical Operating Parameters

| PARAMETER Cathode Voltage | MIN -34 | MAX -32 | UNITS kV |
|------------------------------|------------|------------|-------------|
| Cathode Current | | 10 | а |
| Heater Voltage | 8 | 10 | V |
| Heater Current | | 8 | А |
| Collector Voltage | 19 | 22 | kV |
| Grid Bias Voltage | -550 | -450 | V |
| Grid Pulse Voltage | 350 | 500 | V |
| RF Drive Power | | 0.50 | W |
| Pulse Width | | 100 | µsec |
| Duty Cycle | | 2.5 | % |
| Cooling Flow Rate | 3.5 | | gpm |
| Pressure Drop | | 40 | psig |
| Weight | | 45 | lbs |
| Dimensions | | 6x6x40 | inches |

FEATURES:

- 5.4 GHz to 5.9 GHz
- 50 kW Peak output power
- 2.5% Duty cycle
- Non-intercepting grid pulsed
- 47 dB gain
- Single stage depressed collector
- Forced liquid cooled
- PPM focused
- Coaxial input, WR 187 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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