

The VTX-5682A pulsed-coupled cavity TWT covers 9.0 GHz to 9.5 GHz with 30 kW peak output power, 1.0 % duty cycle. This device is Cathode pulsed with a isolated collector to achieve 48 dB gain.

Custom configurations are also available. These variations in the performance and configuration include: grid modulation, cooling method (affects average power level), mechanical configuration, electrical and RF connections.

Typical Operating Parameters

Features

- 9.0 GHz to 9.5 GHz
- 30 kW PEAK OUTPUT POWER
- 1.0% DUTY CYCLE
- CATHODE PULSED
- 48 dB GAIN
- ISOLATED COLLECTOR
- FORCED AIR COOLED
- PPM FOCUSED
- WR 90 WAVEGUIDE, INPUT AND OUTPUT

| PARAMETER | MIN | MAX | UNITS |
|-------------------|-----|---------|---------------------|
| Cathode Voltage | -27 | -25 | kV |
| Cathode Current | --- | 7.0 | a |
| Heater Voltage | 9 | 11 | V |
| Heater Current | --- | 4 | A |
| RF Drive Power | --- | 0.25 | W |
| Pulse Width | --- | 50 | μsec |
| Duty Cycle | --- | 1.0 | % |
| Cooling Flow Rate | 2.0 | --- | lbm/min |
| Pressure Drop | --- | 2.5 | In H ² O |
| Weight | --- | 16 | lbs |
| Dimensions | --- | 4 X4X18 | inches |

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.

For additional information on CPI MPP products contact:

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