

The VTU-5790A pulsed- coupled cavity TWT covers 16.0 GHz to 17.0 GHz with 30 kW peak output power, 1 % duty cycle. This device has a non-intercepting grid pulsed and single stage depressed collector to achieve 46 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.

## Typical Operating Parameters

4 X 4 X

15

inches

Features	PARAMETER	MIN	MAX	UNIT S
<ul> <li>16.0 GHz to 17.0 GHz</li> <li>30 kW PEAK OUTPUT POWER</li> <li>1% DUTY CYCLE</li> <li>NON-INTERCEPTING GRID PULSED</li> <li>46 dB GAIN</li> <li>SINGLE STAGE DEPRESSED COLLECTOR</li> <li>FORCED AIR COOLED</li> <li>PPM FOCUSED</li> <li>WR 62 WAVEGUIDE, INPUT AND OUTPUT</li> </ul>	Cathode Voltage Cathode Current Heater Voltage Heater Current Collector Voltage Grid Bias Voltage Grid Pulse Voltage RF Drive Power Pulse Width Duty Cycle Cooling Flow Rate Pressure Drop Weight	-38  9  28 -500 300   2.0  2.0	-35 5.5 11 4 30 -300 450 1.0 50 1.0  3 20	kV a V A kV V v W μsec % Ibm/mn In H <sup>2</sup> O Ibs

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.

Dimensions

For additional information on CPI MPP products contact:

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