



The VTU-5690A pulsed- coupled cavity TWT covers 16.0 GHz to 17.0 GHz with 40 kW peak output power, 0.3 % duty cycle. This device has cathode pulsed and grounded 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

PARAMETER MIN MAX UNIT

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Cathode Voltage -38 -35 kV
Cathode Current --- 6.5 a
Heater Voltage 17 18 V
Heater Current --- 3 A
RF Drive Power --- 0.16 W
Pulse Width --- 20 usec
Duty Cycle --- 0.3 %
Baseplate Temperature 50 deg C
Weight --- 11 lbs
Dimensions --- 3 X 3 X 14 inches

Features

- 16.0 GHz to 17.0 GHz
- 40 kW PEAK OUTPUT POWER
- 0.3% DUTY CYCLE
- CATHODE PULSED
- 48 dB GAIN
- GROUNDED COLLECTOR
- CONDUCTION COOLED
- PPM FOCUSED
- WR 62 WAVEGUIDE, INPUT AND OUTPUT

