

VTU-5690A Pulsed Coupled Cavity TWT

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

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

PARAMETER	MIN	MAX	UNIT
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	μsec
Duty Cycle	---	0.3	%
Baseplate Temperature	50		deg C
Weight	---	11	lbs
Dimensions	---	3 X 3 X 14	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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