

VTU-5692C CW Coupled Cavity TWT

The VTU-5692C CW coupled cavity TWT covers 15.7 GHz to 17.7 GHz with 60 kW peak output power, 30 % duty cycle. This device has a Mode-Anode pulsed and single stage depressed collector to achieve 40 dB gain.

Custom configurations are also available. These variations in the performance and configuration include: mechanical configuration, electrical and RF connections, multiple stage depressed collector.

Typical Operating Parameters

Features

- 15.7 GHz to 17.7 GHz
- 60 kW PEAK OUTPUT POWER
- 30% DUTY CYCLE
- MODE-ANODE PULSED
- 40 dB GAIN
- SINGLE STAGE DEPRESSED COLLECTOR
- FORCED LIQUID
- SOLENOID FOCUSED
- WR 62 WAVEGUIDE, INPUT AND OUTPUT

PARAMETER	MIN	MAX	UNIT
Cathode Voltage	-45	-42	kV
Cathode Current	---	12	a
Heater Voltage	6	8	V
Heater Current	---	10	A
Collector Voltage	32	35	kV
Solenoid Voltage	---	150	V
Solenoid Current	---	30	A
RF Drive Power	---	1	W
Pulse Width	---	300	μsec
Duty Cycle	---	30	%
Cooling Flow Rate	40	---	gpm
Pressure Drop	---	50	psi
Weight	---	300	lbs
Dimensions	---	18 dia X 40 lg	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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