VTU-6391A CW Coupled Cavity TWT

Communications & Power Industries

The VTU-6391A CW coupled cavity TWT covers 15.5 GHz to 17.2 GHz with 1.0 kW peak output power, 100 % duty cycle, CW. This device has a Anode switched and single stage depressed collector to achieve 33 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.

Features

- 15.5 GHz to 17.2 GHz
- 1.0 kW PEAK OUTPUT POWER
- CW
- 100% DUTY CYCLE
- ANODE SWITCHED
- 33 dB GAIN
- SINGLE STAGE DEPRESSED COLLECTOR
- FORCED LIQUID
- SOLENOID FOCUSED
- WR 62 WAVEGUIDE, INPUT AND OUTPUT

Typical Operating Parameters

PARAMETER	*MIN*	*MAX*	*UNITS*
Cathode Voltage	-12	-10	kV
Cathode Current	---	1.5	a
Heater Voltage	6	8	V
Heater Current	---	4	A
Collector Voltage	8	9	kV
Solenoid Voltage	---	100	V
Solenoid Current	---	25	A
RF Drive Power	---	0.5	W
Pulse Width	---	300	µsec
Duty Cycle	---	100	%
Cooling Flow Rate	2.0	---	gpm
Pressure Drop	---	3	psi
Weight	---	150	lbs
Dimensions	---	18 dia X 15 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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