

VTX-5783G : Pulsed Coupled Cavity TWT

The VTX-5783G pulsed-coupled cavity TWT covers 9.35GHz to 10.1GHz with 50 kW peak output power, 1.0 % duty cycle. This device has a non-intercepting grid pulsed and dual stage depressed collector to achieve 49 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, & single stage depressed collector



Features

- 9.35 GHz to 10.1 GHz
- 50 kW PEAK OUTPUT POWER
- 1.0 % DUTY CYCLE
- NON-INTERCEPTING GRID PULSED
- 49 dB GAIN
- DUAL STAGE DEPRESSED COLLECTOR
- FORCED AIR COOLED
- PPM FOCUSED
- WR 90 WAVEGUIDE INPUT AND OUTPUT

Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-34	-31	kV
Cathode Current	---	8.5	a
Heater Voltage	9	11	V
Heater Current	---	6	A
Collector #1 Voltage	18	20	kV
Collector #2 Voltage	13	15	kV
Grid Bias Voltage	-550	-450	V
Grid Pulse Voltage	300	450	v
RF Drive Power	---	0.5	W
Pulse Width	---	50	μsec
Duty Cycle	---	1.0	%
Cooling Flow Rate	4.0	---	lbm/mn
Pressure Drop	---	3.0	In H ² O
Weight	---	19	lbs
Dimensions	---	5x5x18	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:

CPI MPP, Coupled Cavity TWT Operation - 3120 Hansen Way, Palo Alto, CA 94303-0750
Phone: 650-846-3073, Fax: 650-857-1708, Email: marketing@mpp.cpii.com, www.cpii.com/mpp