

VTX-5686C Pulsed Coupled Cavity TWT

The VTX-5686C pulsed-coupled cavity TWT covers 9.5 GHz to 10.5 GHz with 120 kW peak output power, 30 % duty cycle. This device has a Mode-Anode pulsed and single stage depressed collector to achieve 48 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.

Typical Operating Parameters

Features

- 9.5 GHz to 10.5 GHz
- 120 kW PEAK OUTPUT POWER
- 30% DUTY CYCLE
- MODE-ANODE PULSED
- 48 dB GAIN
- SINGLE STAGE DEPRESSED COLLECTOR
- FORCED LIQUID COOLED
- SOLENOID FOCUSED
- WR 90 WAVEGUIDE, INPUT AND OUTPUT

PARAMETER	MIN	MAX	UNIT
Cathode Voltage	-44	-42	kV
Cathode Current	---	12	a
Heater Voltage	9	11	V
Heater Current	---	8	A
Collector Voltage	38	40	kV
Mod-Anode Bias Voltage	-1100	-900	V
Solenoid Voltage		200	V
Solenoid Current	---	40	A
RF Drive Power	---	10	W
Pulse Width	---	300	μsec
Duty Cycle	---	30	%
Cooling Flow Rate	60	---	gpm
Pressure Drop	---	60	psi
Weight	---	350	lbs
Dimensions	---	24 dia X 40 ln	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