



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 H2O
Weight	---	19	lbs
Dimensions	---	5x5x18	inches

