

VTC-5764A Pulsed Coupled Cavity TWT

The VTC-5764A pulsed-coupled cavity TWT covers 5.4 GHz to 5.7 GHz with 30 kW peak output power, 25.0 % duty cycle. This device has a non-intercepting grid pulsed electron gun and single stage depressed collector. The device has 47 dB of 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, & multiple stage depressed collector.

Typical Operating Parameters

Features

- 5.4 GHz to 5.7 GHz
- 30 kW PEAK OUTPUT POWER
- 25.0 % DUTY CYCLE
- NON-INTERCEPTING GRID PULSED
- 47 dB GAIN
- SINGLE STAGE DEPRESSED COLLECTOR
- FORCED LIQUID COOLED
- SOLENOID FOCUSED
- COAXIAL INPUT, WR 187 WAVEGUIDE OUTPUT

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-28	-25	kV
Cathode Current	---	7.0	a
Heater Voltage	8	10	V
Heater Current	---	4	A
Collector Voltage	16	20	kV
Grid Bias Voltage	-450	-350	V
Grid Pulse Voltage	250	400	v
Solenoid Voltage	---	150	V
Solenoid Current	---	35	A
RF Drive Power	---	2.0	W
Pulse Width	---	300	µsec
Duty Cycle	---	25	%
Cooling Flow Rate	12.0	---	gpm
Pressure Drop	---	40	psig
Weight	---	300	lbs
Dimensions	---	12 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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