

## VTS-5754G Pulsed Coupled Cavity TWT

The VTS-5754G pulsed-coupled cavity TWT covers 2.7 GHz to 3.1 GHz with 160 kW peak output power, up to 6% duty cycle. This device has a non-intercepting grid pulsed and single stage depressed collector to achieve 48 dB gain. This device is capable of parallel operation from a common HV power supply, phase tracking is better than +/- 20 degrees. The long life CD coated cathode is capable of pulse width to 200 micro seconds.



## **Features**

- 2.7 GHz to 3.1 GHz
- 160 kW PEAK OUTPUT POWER
- Up to 6% DUTY CYCLE
- NON-INTERCEPTING GRID PULSED
- 47 dB GAIN
- SINGLE STAGE DEPRESSED COLLECTOR
- FORCED LIQUID COOLED
- PPM FOCUSED
- COAXIAL TYPE-N- INPUT, CPR 284 WAVEGUIDE OUTPUT

## Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-46	-43	kV
Cathode Current	14	17	а
Heater Voltage	8	11	V
Heater Current	6	11	Α
Collector Voltage	27	30	kV
Grid Bias Voltage	-700	-600	V
Grid Pulse Voltage	600	800	V
RF Drive Power		2.0	W
Pulse Width		100	μsec
Duty Cycle		2.0	%
Collector Flow Rate		6.0	Gpm
Cooling Flow Rate		3.5	Gpm
Collector Pressure Drop		25	psig
Body Pressure Drop		42	psig
Weight		150	lbs
Dimensions		12 X15X 54	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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