

## VTS-5754A Pulsed Coupled Cavity TWT

The VTS-5754A pulsed-coupled cavity TWT covers 2.9 GHz to 3.2 GHz with 160 kW peak output power, up to 8% 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 in this PPM focused TWT



## **Features**

- 2.9 GHz to 3.2 GHz
- 170 kW PEAK OUTPUT POWER
- Up to 8% 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	15	19	а
Heater Voltage	8	11	V
Heater Current	6	11	Α
Collector Voltage	27	39	kV
Grid Bias Voltage	-700	-600	V
Grid Pulse Voltage	600	1000	V
RF Drive Power		2.0	W
Pulse Width		220	μsec
Duty Cycle		8.0	%
Collector Flow Rate		7.0	Gpm
Cooling Flow Rate		5.0	Gpm
Collector Pressure Drop		40	psig
Body Pressure Drop		60	psig
Weight		150	lbs
Dimensions		11 X14X 55	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@cpii.com, www.cpii.com/mpp