

VTS-5755 Pulsed Coupled Cavity TWT

The VTS-5755 pulsed-coupled cavity TWT covers 2.7 GHz to 3.1 GHz with 60 kW peak output power, up to 2.4% duty cycle. This device has a non-intercepting grid pulsed and single stage depressed collector to achieve 50 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 50 micro seconds in this PPM focused, air cooled TWT



Typical Operating Parameters

Features

- 2.7 GHz to 3.1 GHz
- 60 kW PEAK OUTPUT POWER
- Up to 2.4% DUTY CYCLE
- NON-INTERCEPTING GRID PULSED
- 50 dB GAIN
- SINGLE STAGE DEPRESSED COLLECTOR
- FORCED AIR COOLED
- PPM FOCUSED
- COAXIAL TYPE-N- INPUT, CPR 284 WAVEGUIDE OUTPUT

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-33	-30	kV
Cathode Current	8	10	a
Heater Voltage	8	11	V
Heater Current	6	11	A
Collector Voltage	20	22	kV
Grid Bias Voltage	-400	-600	V
Grid Pulse Voltage	350	600	v
RF Drive Power	---	0.5	W
Pulse Width	---	40	μsec
Duty Cycle	---	2.4	%
Air Flow Rate	13	14	Lbs/min
Pressure Drop	---	5	inches
Weight	---	80	lbs
Dimensions	---	12 X15X47	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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