



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

TWTTypical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-46	-43	kV
Cathode Current	15	19	a
Heater Voltage	8	11	V
Heater Current	6	11	A
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	usec
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

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