



The VTS-5753 pulsed-coupled cavity TWT covers 3.1 GHz to 3.5 GHz with 170 kW peak output power, up to 16% duty cycle. This solenoid focused device has a non-intercepting grid pulsed and single stage depressed collector to achieve 46 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 1 millisecond.

Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-41	-43	kV
Cathode Current	15	18	a
Heater Voltage	8	11	V
Heater Current	6	11	A
Collector Voltage	33	38	kV
Grid Bias Voltage	-700	-600	V
Grid Pulse Voltage	600	800	v
RF Drive Power	---	6.0	W
Pulse Width	---	1000	usec
Duty Cycle	---	16.0	%
Coolant Flow Rate	---	16.0	Gpm
Coolant Pressure Drop	75		psig
Solenoid Voltage	125	200	VDC
Solenoid Current	22	26	ADC
Weight	---	300	lbs
Dimensions	---	10 X16X 44	inches

Features

- 3.1 GHz to 3.5 GHz
- 170 kW PEAK OUTPUT POWER
- Up to 16% DUTY CYCLE
- NON-INTERCEPTING GRID PULSED
- 46 dB GAIN

- SINGLE STAGE DEPRESSED COLLECTOR
- FORCED LIQUID COOLED
- SOLENOID FOCUSED
- COAXIAL TYPE-N- INPUT,

