

## Communications & Power Industries CCTWT

The VTS-5754F pulsed- coupled cavity TWT covers 3.1 GHz to 3.6 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.



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### Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-46	-44	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	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

### FEATURES:

- 3.1 GHz to 3.6 GHz
- 160 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

### BENEFITS:

- Efficient
- Bandwidth
- Over 40 years of technical expertise

### APPLICATIONS:

- Ground radars