160 kW Pulsed Coupled Cavity TWT

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-intercepti ng grid pulsed and single stage depressed collector to achieve 48 dB gain. This device is capable of para llel 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.

Contact us at MPPMarketing@cpii.com or call us at +1650-846-2800.

Typical Operating Parameters

PARAMETER Cathode Voltage Cathode Current	MIN -46 15	MAX -44 19	UNITS kV
Heater Voltage	15	19	a V
Heater Current	6	11	V A
Collector Voltage	27	39	kV
Grid Bias Voltage	-700	-600	V
Grid Pulse Voltage	600	1000	V
RF D rive 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 Pressu re Drop		60	psig
Weight		150	lbs
Dimensions		11 X14X 55	inches



- 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:

- Ffficient
- Bandwidth
- Over 40 years of technical expertise

APPLICATIONS:

• Ground radars



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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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