

Communications & Power Industries CCTWT

The VTX-5786K family of pulsed-coupled cavity TWTs covers 8.4 GHz to 9.95 GHz the 5786K has 15 kW peak output power, 6.0% duty cycle. This device has a non-intercepting grid pulsed and dual stage depressed collector to achieve 41 dB gain.

Custom configurations are also available. These variations in the performance and configuration include: cooling method (affects average power level), mechanical configuration, electrical and RF connections, & single stage depressed collector.



Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800.

Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-25	-22	kV
Cathode Current	---	4.0	a
Heater Voltage	8	10	V
Heater Current	---	4	A
Collector #1 Voltage	11	13	kV
Collector #2 Voltage	7	9	kV
Grid Bias Voltage	-300	-400	V
Grid Pulse Voltage	200	350	v
RF Drive Power	---	1.0	W
Pulse Width	---	100	μsec
Duty Cycle	---	6.0	%
Cooling Flow Rate	3.5	---	gpm
Pressure Drop	---	25	psi
Weight	---	22	lbs
Dimensions	---	5x5x20	inches

FEATURES:

- 8.4 GHz to 9.0 GHz
- 15 kW Peak output power
- 6.0% Duty cycle
- Non-intercepting grid pulsed
- 41 dB gain
- Dual stage depressed collector
- Forced liquid cooled
- PPM focused
- Coaxial input, WR 90 waveguide output

BENEFITS:

- Efficient
- Bandwidth
- Over 40 years of technical expertise

APPLICATIONS:

- Ground radars