

Communications & Power Industries CCTWT

The VTX-5786J family of pulsed-coupled cavity TWTs covers 9.45 GHz to 9.95GHz the 5786J has 12 kW peak output power, 10.0 % duty cycle. This device has a non-intercepting grid pulsed and dual stage depressed collector to achieve 40 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



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Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-24	-22	kV
Cathode Current	---	4.0	a
Heater Voltage	9	11	V
Heater Current	---	4	A
Collector #1 Voltage	11	13	kV
Collector #2 Voltage	7	9	kV
Grid Bias Voltage	-400	-300	V
Grid Pulse Voltage	150	300	v
RF Drive Power	---	1.0	W
Pulse Width	---	50	µsec
Duty Cycle	---	12.0	%
Cooling Flow Rate	4.0	---	gpm
Pressure Drop	---	30	psi
Weight	---	20	lbs
Dimensions	---	5x5x18	inches

FEATURES:

- 9.45 GHz to 9.95 GHz
- 12 kW Peak output power
- 10.0 % Duty cycle
- Non-intercepting grid pulsed
- 40 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