

# VTX-5786J : Pulsed Coupled Cavity TWT

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



## 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

## 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

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.

For additional information on CPI MPP products contact:

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