VTX-5786J

12 kW Pulsed Coupled Cavity TWT

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

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

Typical Operating Parameters

PARAMETER Cathode Voltage	MIN -24	MAX -22	UNITS kV
Cathode Current		4.0	а
Heater Voltage	9	11	V
Heater Current		4	А
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



- 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



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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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