# 12 kW Pulsed Coupled Cavity TWT

# VTX-5786J

## **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 Cathode Current Heater Voltage Heater Current Collector #1 Voltage	MIN -24  9  11	MAX -22 4.0 11 4 13	UNITS kV a V A kV
Collector #2 Voltage Grid Bias Voltage	7 -400	9 -300	kV 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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