



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

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 μ sec
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

