



VTC-6260E4 is a 125 W, CW Traveling-Wave Amplifier, 5.850 GHz to 6.425 GHz, Periodic-Permanent-Magnet Focused, Coaxial Input, Coaxial Output, and Conduction Cooled. 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 Heater Voltage Heater Surge Current Helix Voltage Collector Voltage Cathode Current Helix Current Parameters: E_f I_f E_w E_b I_k I_w Units: V A kVdc kVdc mAdc mAdc Maximum: 6.1 5 6 4.0 180 15 Minimum: 5.5 - - - 5 2.8 - - - - - Drive Power Cathode Warm-up Time Load VSWR Base Temperature Environment Parameters: P_d T_k Units: mW Minutes °C - - - Maximum: 10 - - - 1.7:1 105 - - - Minimum: - - - 3 - - - - - Test Conditions: E_f E_w E_b VSWR V kVdc kVdc 5.8 5.7 $E_w/2$ 1.1:1 (nominal)

Features

- 125 Watts
- 5.850 GHz - 6.425 GHz
- PPM Focused
- Coaxial Input
- Coaxial Output
- Any Mounting Position • Weight: 6 lb. maximum
- Conduction Cooled

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