

Series E μ POWER™ 3 Watts Compact Low-Profile Single/Dual DC-DC Converters

Features

- Surface mount technology
- Up to 3 watts output power
- High power density
- High efficiency
- Low profile package
- High input/output isolation
- Short circuit protection
- Low output ripple & noise
- Single or dual outputs
- High MTBF
- 100% burned-in and tested
- Metal case shielding
- Vacuum encapsulated potting

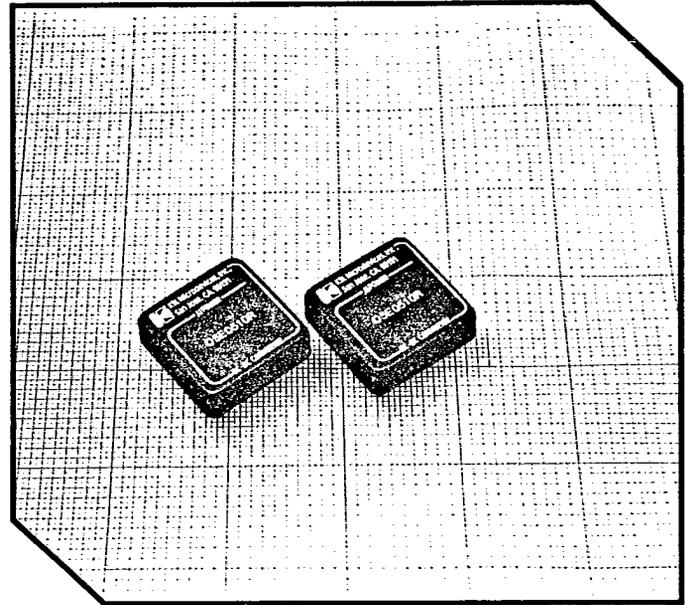
Specifications (Regulate Type)

- Input Voltage Range: $\pm 10\%$ at nominal
- Output Voltage Tolerance: $\pm 1\%$ at nominal
- Input Reflected Ripple: 1% of V_{in} max.
- Line Regulation: $\pm .05\%$ for $\pm 10\%$ line change
- Load Regulation: $.05\%$ (10% to 100% load)
- Output Ripple & Noise: 50mV p-p
- Input/Output Isolation: $150M\Omega/500VDC$ min.
- Short Circuit Protection: current limiting
- Efficiency: 60% @ nominal voltage
- Transient Response: Less than $10\mu sec.$
- MTBF: 300,000 hours
- Operating Temperature: $-25^{\circ}C$ to $+70^{\circ}C$
- Storage Temperature: $-55^{\circ}C$ to $+70^{\circ}C$
- Temperature Coefficient: 100ppm/ $^{\circ}C$
- Burn-In: $70^{\circ}C$ for 4 hours and tested
- Long Term Stability: 0.4%/khours

Special Options

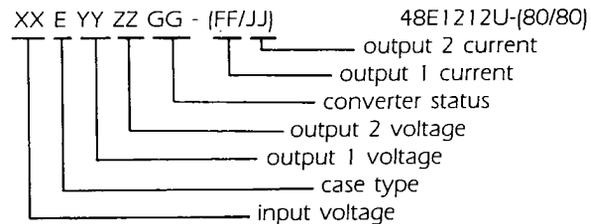
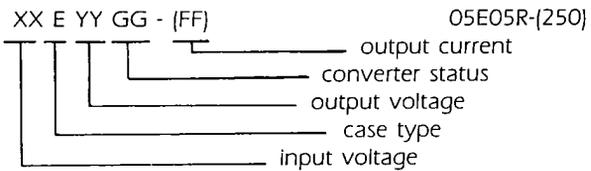
- Case: EMI/RF Continuous Shielding Package
Six-sided enclosure grounded
- Stabilization Bake: MIL-STD-883B, method 1008.2
24 hours at $+125^{\circ}C$
- Burn-In: MIL-STD-883B, method 1015.4
96 hours at $+70^{\circ}C$ case temperature
- Temperature Cycle: MIL-STD-883B, method 1010.5
 $-55^{\circ}C/+125^{\circ}C$ 10 cycles minimum
- Thermal Shock: MIL-STD-883B, method 1011.4
 $-55^{\circ}C/5$ minutes, $+125^{\circ}C/5$ minutes

*Specifications subject to change without notice



Part Number — Custom Designs

KSL μ POWER converters are used in a wide variety of special custom design applications where alternate voltages, currents, pin-outs or multiple outputs are required.



Converter Status

- | | |
|---------------------|--------------------|
| U: Unregulated | S: Special specs |
| R: Regulated | J: Hi-Rel screened |
| C: Custom circuit | T: Triple outputs |
| P: Special pin-outs | Q: Quad outputs |

Applications

- Telecommunications Equipment
- Data Communications
- CAD/CAM and CAE Systems
- Process Control Equipment
- Medical/Instrumentation

