

Series A and B μ POWER™ 1.5 Watts 24-Lead DIP

Low Noise Fully Regulated DC-DC Converters

Features

- Thick-film hybrid circuit
- Surface mount technology
- Up to 1.5 watts output power
- High power density
- Excellent regulation
- 24-lead DIP compatible 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

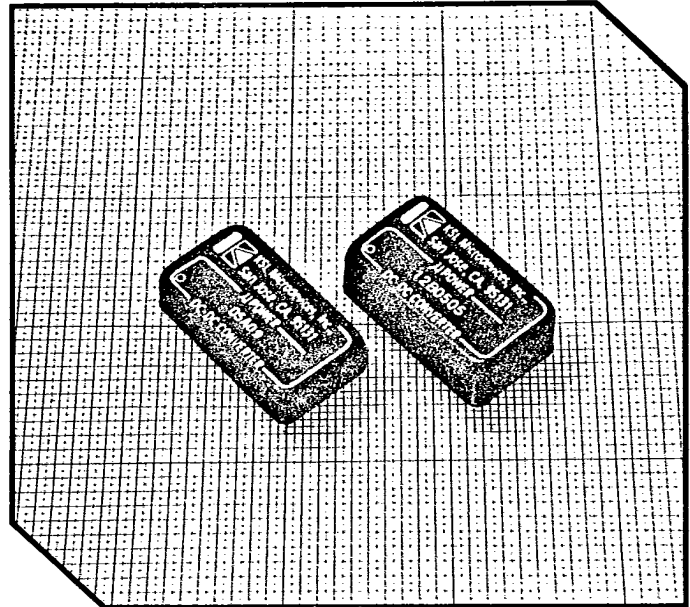
General Specifications

- Input Voltage Range: $\pm 10\%$ at nominal
- Output Voltage Tolerance: $\pm 1\%$ at nominal
- Input Reflected Ripple: 1% of V_{in} max.
- Line Regulation: $\pm .02\%$ for $\pm 10\%$ line change
- Load Regulation: .05% (10% to 100% load)
- Output Ripple & Noise: 10mV p-p
- Input/Output Isolation: 150M Ω 500VDC min.
- Short Circuit Protection: current limiting
- Efficiency: 60% @ nominal voltage
- Transient Response: Less than 10 μ sec.
- MTBF: 340,000 hours
- Operating Temperature: -25°C to $+70^{\circ}\text{C}$
- Storage Temperature: -55°C to $+70^{\circ}\text{C}$
- Temperature Coefficient: 100ppm/ $^{\circ}\text{C}$
- Burn-In: 70 $^{\circ}\text{C}$ for 4 hours and tested
- Long Term Stability: 0.4%/khours

Special Options

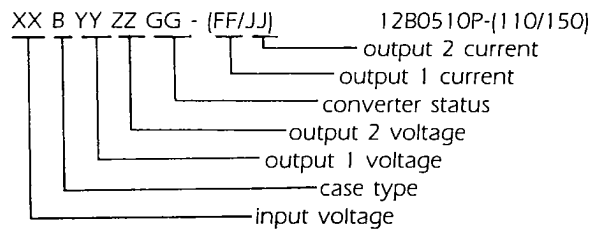
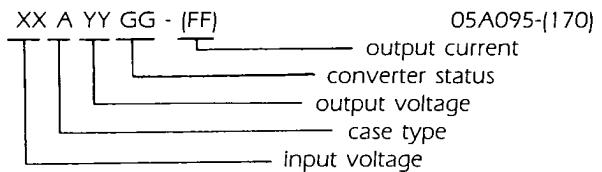
- Case: EMI/RF Continuous Shielding Package
Six-sided enclosure grounded
- Stabilization Bake: MIL-STD-883B, method 1008.2
24 hours at $+125^{\circ}\text{C}$
- Burn-In: MIL-STD-883B, method 1015.4
96 hours at $+70^{\circ}\text{C}$ case temperature
- Temperature Cycle: MIL-STD-883B, method 1010.5
 $-55^{\circ}\text{C}/+125^{\circ}\text{C}$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

- LAN Networks
- ECL Applications
- Instrumentation
- Medical electronics
- Robotic control



