

Series M and N μ POWER™ 2.5 Watts 24-Lead DIP

High Efficiency Unregulated DC-DC Converters

Features

- Thick-film hybrid circuit
- Surface mount technology
- Up to 2.5 watts output power
- High power density
- Excellent efficiency
- 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

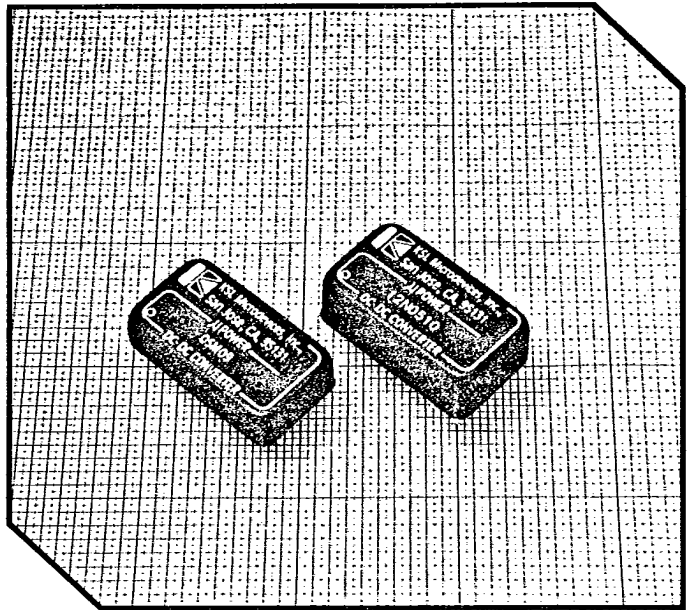
General Specifications

- Input Voltage Range: $\pm 1.5\%$ at nominal
- Output Voltage Tolerance: $\pm 3\%$ at nominal
- Input Reflected Ripple: 1% of V_{in} max.
- Line Regulation: 1.1%/1% V_{in}
- Load Regulation: $\pm 10\%$ (10% to 100% load)
- Output Ripple & Noise: 50mV p-p
- Input/Output Isolation: 150M Ω 500VDC min.
- Short Circuit Protection: current limiting
- Efficiency: 80% @ nominal voltage
- Transient Response: Less than 10 μ sec.
- MTBF: 500,000 hours
- Operating Temperature: -25°C to +70°C
- Storage Temperature: -55°C to +70°C
- Temperature Coefficient: 100ppm/°C
- Burn-In: 70°C for 4 hours and tested
- Long Term Stability: 0.4%/khours

Special Options

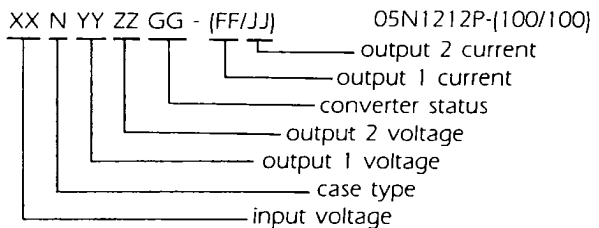
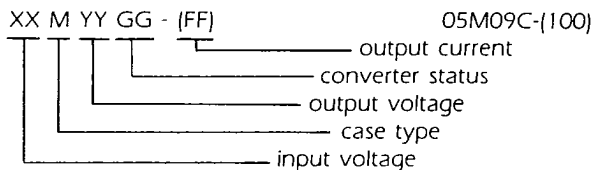
- Case: EMI/RF Continuous Shielding Package
Six-sided enclosure grounded
- Stabilization Bake: MIL-STD-883B, method 1008.2
24 hours at +125°C
- Burn-In: MIL-STD-883B, method 1015.4
96 hours at +70°C case temperature
- Temperature Cycle: MIL-STD-883B, method 1010.5
-55°C/+125°C 10 cycles minimum
- Thermal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

- Ethernet/CheaperLAN LAN
- Data Communications
- Video Graphics Terminals
- Field Test Equipment
- Airborne Electronics

