

Series K**μPOWER™****6 Watts Single/Dual****Low-Profile High Density DC-DC Converters****Features**

- Surface mount technology
- Up to 6 watts output power
- High power density
- 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

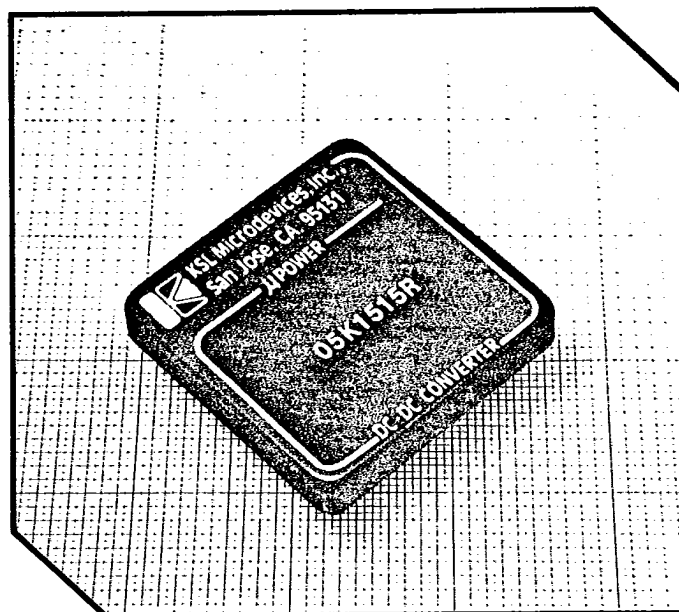
Specifications (Regulated Type)

- 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: .1% (10% to 100% load)
- Output Ripple & Noise: 50mV p-p
- Input/Output Isolation: 150M Ω 500VDC min.
- Short Circuit Protection: current limiting
- Efficiency: 55% @ nominal voltage
- Transient Response: Less than 10 μ sec.
- MTBF: 260,000 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°C for 4 hours and tested
- Long Term Stability: 0.4%/khours

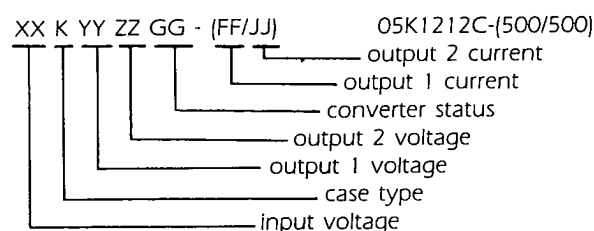
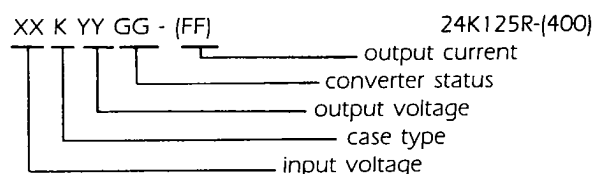
Special Options

- 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 μPOWER 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
R: Regulated
C: Custom circuit
P: Special pin-outs

S: Special specs
J: Hi-Rel screened
T: Triple outputs
Q: Quad outputs

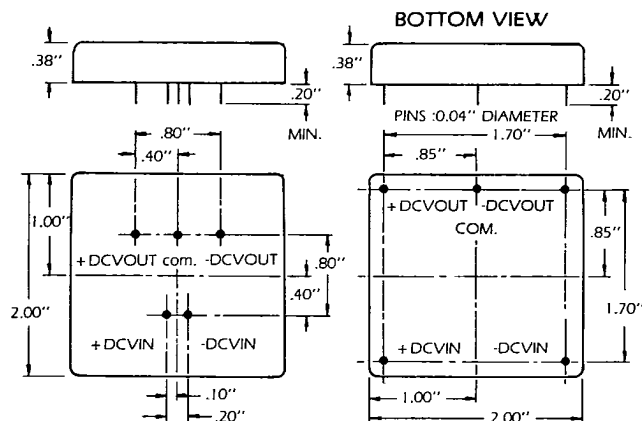
Applications

- Instrumentation
- Analog or Digital Systems
- Data Acquisition Systems
- Process Control
- Telecommunications Equipment



MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	LOAD CURRENT*	MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	LOAD CURRENT*
05K05	+/- 5V	+/- 5V	1200 mA	05K0505	+/- 5V	± 5V	± 600 mA
05K09	+/- 5V	+/- 9V	670 mA	05K0909	+/- 5V	± 9V	± 335 mA
05K12	+/- 5V	+/- 12V	500 mA	05K1212	+/- 5V	± 12V	± 250 mA
05K15	+/- 5V	+/- 15V	400 mA	05K1515	+/- 5V	± 15V	± 200 mA
05K24	+/- 5V	+/- 24V	250 mA	05K2424	+/- 5V	± 24V	± 125 mA
05K28	+/- 5V	+/- 28V	210 mA	05K2828	+/- 5V	± 28V	± 105 mA
12K05	+/- 12V	+/- 5V	1200 mA	12K0505	+/- 12V	± 5V	± 600 mA
12K09	+/- 12V	+/- 9V	670 mA	12K0909	+/- 12V	± 9V	± 335 mA
12K12	+/- 12V	+/- 12V	500 mA	12K1212	+/- 12V	± 12V	± 250 mA
12K15	+/- 12V	+/- 15V	400 mA	12K1515	+/- 12V	± 15V	± 200 mA
12K24	+/- 12V	+/- 24V	250 mA	12K2424	+/- 12V	± 24V	± 125 mA
12K28	+/- 12V	+/- 28V	210 mA	12K2828	+/- 12V	± 28V	± 105 mA
15K05	+/- 15V	+/- 5V	1200 mA	15K0505	+/- 15V	± 5V	± 600 mA
15K09	+/- 15V	+/- 9V	670 mA	15K0909	+/- 15V	± 9V	± 335 mA
15K12	+/- 15V	+/- 12V	500 mA	15K1212	+/- 15V	± 12V	± 250 mA
15K15	+/- 15V	+/- 15V	400 mA	15K1515	+/- 15V	± 15V	± 200 mA
15K24	+/- 15V	+/- 24V	250 mA	15K2424	+/- 15V	± 24V	± 125 mA
15K48	+/- 15V	+/- 28V	210 mA	15K2828	+/- 15V	± 28V	± 105 mA
24K05	+/- 24V	+/- 5V	1200 mA	24K0505	+/- 24V	± 5V	± 600 mA
24K09	+/- 24V	+/- 9V	670 mA	24K0909	+/- 24V	± 9V	± 335 mA
24K12	+/- 24V	+/- 12V	500 mA	24K1212	+/- 24V	± 12V	± 250 mA
24K15	+/- 24V	+/- 15V	400 mA	24K1515	+/- 24V	± 15V	± 200 mA
24K24	+/- 24V	+/- 24V	250 mA	24K2424	+/- 24V	± 24V	± 125 mA
24K28	+/- 24V	+/- 28V	210 mA	24K2828	+/- 24V	± 28V	± 105 mA
48K05	+/- 48V	+/- 5V	1200 mA	48K0505	+/- 48V	± 5V	± 600 mA
48K09	+/- 48V	+/- 9V	670 mA	48K0909	+/- 48V	± 9V	± 335 mA
48K12	+/- 48V	+/- 12V	500 mA	48K1212	+/- 48V	± 12V	± 250 mA
48K15	+/- 48V	+/- 15V	400 mA	48K1515	+/- 48V	± 15V	± 200 mA
48K24	+/- 48V	+/- 24V	250 mA	48K2424	+/- 48V	± 24V	± 125 mA
48K28	+/- 48V	+/- 28V	210 mA	48K2828	+/- 48V	± 28V	± 105 mA

Package Dimensions

[illegible]