

Series 1

 μ POWER™

4.5 Watts Miniature

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High Isolation Single/Dual DC-DC Converters

Features

- Surface mount technology
- Up to 4.5 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

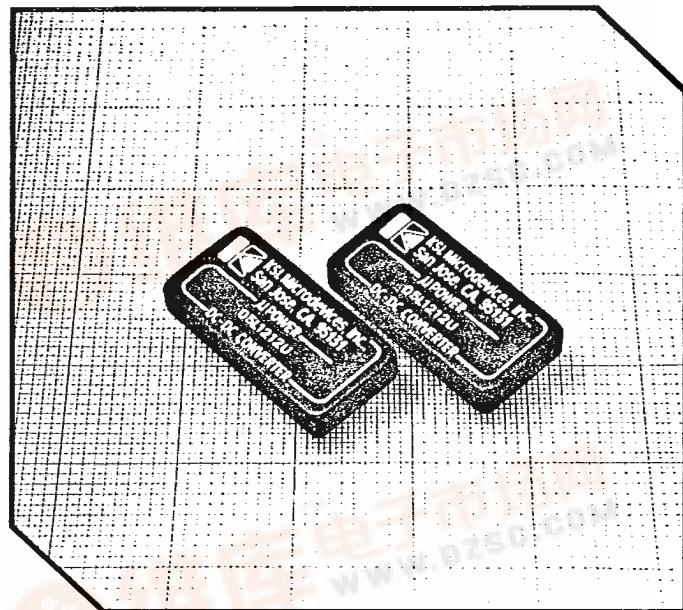
Specifications (Regulated Type)

- Input Voltage Range: $\pm 10\%$ at nominal
- Output Voltage Tolerance: $\pm 1\%$ at nominal
- Input Reflected Ripple: 1% of Vin 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: $150M\Omega$ to $2500VDC$ min.
- Short Circuit Protection: current limiting
- Efficiency: 60% @ nominal voltage
- Transient Response: Less than 10μ sec.
- MTBF: 280,000 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

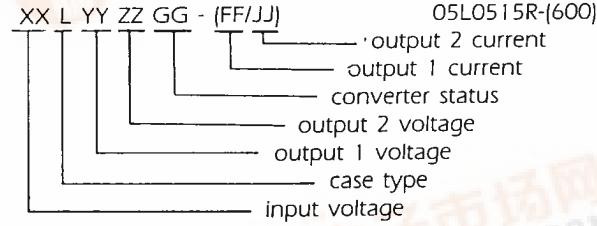
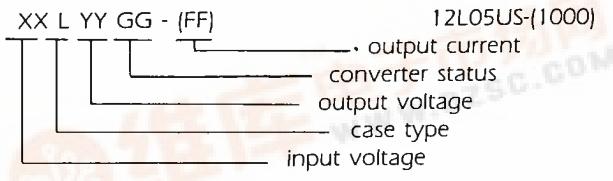
- Case: EMI/RF Continuous Shielding Package
Six-sided enclosure grounded
- Stabilization Bake: MIL-STD-883B, method 1008.2
24 hours at $+125^\circ C$
- Burn-In: MIL-STD-883B, method 1015.4
96 hours at $+70^\circ C$ case temperature
- Temperature Cycle: MIL-STD-883B, method 1010.5
 $-55^\circ C/+125^\circ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

- Instrumentation
- Video Processing Equipment
- Process Control
- Industrial Control Systems
- Analog and Digital Systems

Selection Chart (Maximum Rating)

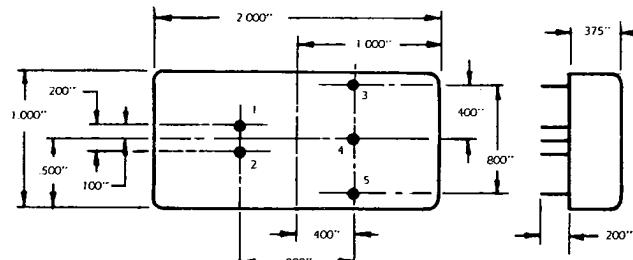
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MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	LOAD CURRENT*	MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	LOAD CURRENT*
05L05	+/-5V	+/- 5V	900 mA	05L0505	+/-5V	± 5V	± 450 mA
05L09	+/-5V	+/- 9V	500 mA	05L0909	+/-5V	± 9V	± 250 mA
05L12	+/-5V	+/-12V	380 mA	05L1212	+/-5V	± 12V	± 190 mA
05L15	+/-5V	+/-15V	300 mA	05L1515	+/-5V	± 15V	± 150 mA
05L24	+/-5V	+/-24V	180 mA	05L2424	+/-5V	± 24V	± 90 mA
05L28	+/-5V	+/-28V	160 mA	05L2828	+/-5V	± 28V	± 80 mA
12L05	+/-12V	+/- 5V	900 mA	12L0505	+/-12V	± 5V	± 450 mA
12L09	+/-12V	+/- 9V	500 mA	12L0909	+/-12V	± 9V	± 250 mA
12L12	+/-12V	+/-12V	380 mA	12L1212	+/-12V	± 12V	± 190 mA
12L15	+/-12V	+/-15V	300 mA	12L1515	+/-12V	± 15V	± 150 mA
12L24	+/-12V	+/-24V	180 mA	12L2424	+/-12V	± 24V	± 90 mA
12L28	+/-12V	+/-28V	160 mA	12L2828	+/-12V	± 28V	± 80 mA
15L05	+/-15V	+/- 5V	900 mA	15L0505	+/-15V	± 5V	± 450 mA
15L09	+/-15V	+/- 9V	500 mA	15L0909	+/-15V	± 9V	± 250 mA
15L12	+/-15V	+/-12V	380 mA	15L1212	+/-15V	± 12V	± 190 mA
15L15	+/-15V	+/-15V	300 mA	15L1515	+/-15V	± 15V	± 150 mA
15L24	+/-15V	+/-24V	180 mA	15L2424	+/-15V	± 24V	± 90 mA
15L28	+/-15V	+/-28V	160 mA	15L2828	+/-15V	± 28V	± 80 mA
24L05	+/-24V	+/- 5V	900 mA	24L0505	+/-24V	± 5V	± 450 mA
24L09	+/-24V	+/- 9V	500 mA	24L0909	+/-24V	± 9V	± 250 mA
24L12	+/-24V	+/-12V	380 mA	24L1212	+/-24V	± 12V	± 190 mA
24L15	+/-24V	+/-15V	300 mA	24L1515	+/-24V	± 15V	± 150 mA
24L24	+/-24V	+/-24V	180 mA	24L2424	+/-24V	± 24V	± 90 mA
24L28	+/-24V	+/-28V	160 mA	24L2828	+/-24V	± 28V	± 80 mA
48L05	+/-48V	+/- 5V	900 mA	48L0505	+/-48V	± 5V	± 450 mA
48L09	+/-48V	+/- 9V	500 mA	48L0909	+/-48V	± 9V	± 250 mA
48L12	+/-48V	+/-12V	380 mA	48L1212	+/-48V	± 12V	± 190 mA
48L15	+/-48V	+/-15V	300 mA	48L1515	+/-48V	± 15V	± 150 mA
48L24	+/-48V	+/-24V	180 mA	48L2424	+/-48V	± 24V	± 90 mA
48L28	+/-48V	+/-28V	160 mA	48L2828	+/-48V	± 28V	± 80 mA

***Current must be specified.**

Package Dimensions

BOTTOM VIEW



PINS: 0.04" x 0.20" long min.

Design Notes