



5 WATT SINGLE & DUAL OUTPUT

Isolated, 2:1 Wide Input DC/DC Converters



FEATURES

- **Input/Output Isolation**
- **Efficiency to 86% @ FL**
- **100KHz Min. Switching Frequency**
- **Short Circuit Protection**
- **6-Sided Shielding**
- **Epoxy Encapsulated**

KW5 Series

Specifications

All specifications are typical at nominal input, full load, and 25°C , unless otherwise noted.

INPUT

| | |
|---------------------|---------------|
| Input Voltages..... | Voltage Range |
| 12 Vdc..... | 9 - 18 Vdc |
| 24 Vdc..... | 18 - 36 Vdc |
| 48 Vdc..... | 36 - 72 Vdc |

OUTPUT

| | |
|--------------------------------------|--------------------------|
| Voltage Accuracy..... | ±1% |
| Line Regulation..... | ±0.1% |
| Load Regulation..... | ±0.5% |
| Ripple Noise (20MHz Bw)..... | 50mV p-p max. |
| Temperature Coefficient (at FL)..... | ±0.02%/°C max. |
| Protection..... | Over Current Protection |
| | Short Circuit Protection |

GENERAL

| | |
|---------------------------|--------------------------|
| Efficiency..... | 86% max. |
| Isolation Voltage..... | 500 Vdc min. |
| | (Up to 3000Vdc Optional) |
| Isolation Resistance..... | 100MOhms |
| Switching Frequency..... | 1000KHz min. |

ENVIRONMENTAL

| | |
|----------------------------------|------------------------------|
| Operating Temperature Range..... | -25° to +71°C |
| Storage Temperature Range..... | -50° to +105°C |
| Cooling..... | Free Air Convection |
| EMI/RFI..... | Five-Sided Continuous Shield |
| | Six-Sided Continuous Shield |

PHYSICAL

| | |
|--------------------|--|
| Case Material..... | Nickel Coated Copper w/ Non-conductive Base |
| Weight | 0.8 oz. (22 grams) |
| Dimensions..... | 2.00" x 2.00" x 0.417" |
| | 50.8 x 50.8 x 10.6mm |

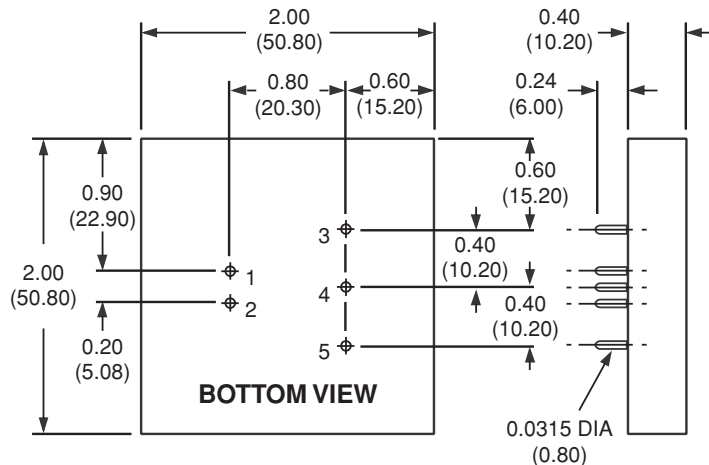
Selection Guide

(Continued)

| DUAL OUTPUT VOLTAGE SINGLE OUTPUT VOLTAGE | Input Voltage Nominal (Range) (Vdc) | Output Voltage (Vdc) | Output Current (mA) | Model Number | Case | |
|---|-------------------------------------|----------------------|---------------------|--------------|------|--|
| | 12 (9-18) | 5 | 1000 | KW5-12S5 | B2 | |
| | | 12 | 417 | KW5-12S12 | B2 | |
| | | 15 | 334 | KW5-12S15 | B2 | |
| | 24 (18-36) | 5 | 1000 | KW5-24S5 | B2 | |
| | | 12 | 417 | KW5-24S12 | B2 | |
| | | 15 | 334 | KW5-24S15 | B2 | |
| | 48 (36-72) | 5 | 1000 | KW5-48S5 | B2 | |
| | | 12 | 417 | KW5-48S12 | B2 | |
| | | 15 | 334 | KW5-48S15 | B2 | |
| 12 (9-18) | ±5 | ±500 | KW5-12-5 | B2 | | |
| | ±12 | ±210 | KW5-12-12 | B2 | | |
| | ±15 | ±170 | KW5-12-15 | B2 | | |
| 24 (18-36) | ±5 | ±500 | KW5-24-5 | B2 | | |
| | ±12 | ±210 | KW5-24-12 | B2 | | |
| | ±15 | ±170 | KW5-24-15 | B2 | | |
| 48 (36-72) | ±5 | ±500 | KW5-48-5 | B2 | | |
| | ±12 | ±210 | KW5-48-12 | B2 | | |
| | ±15 | ±170 | KW5-48-15 | B2 | | |

Mechanical Specifications

| I/O Connections | | |
|-----------------|--------|--------|
| Pin | SINGLE | DUAL |
| 1 | +Vin | +Vin |
| 2 | -Vin | -Vin |
| 3 | +Vout | +Vout |
| 4 | No Pin | Common |
| 5 | -Vout | -Vout |



All Dimensions are in inches (mm)



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