



# 15 WATT SINGLE & DUAL OUTPUT

## Regulated, 2:1 Input Range DC/DC Converters



### FEATURES

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

KW15 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 (20 MHz BW).....	50mV p-p max.
Temperature Coefficient (at FL).....	±0.02%/°C max.
Transient Response, 25% load step.....	< 250µs

#### GENERAL

Efficiency.....	86% max. @ FL
Isolation Voltage.....	500 Vdc min.
.....	Up to 3000 Vdc min. Optional
Isolation Resistance.....	100MOhms
Switching Frequency.....	100KHz typ.
Protection.....	Over Current Protection
.....	Short Circuit Protection

#### ENVIRONMENTAL

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

#### PHYSICAL

Case Material.....	Black Coated Copper w/ Non-Conductive Metal Base
Weight.....	3 oz. (9 grams)
Dimensions.....	2.00" x 2.00" x 0.400"
.....	5.08 x 5.08 x 10.2mm

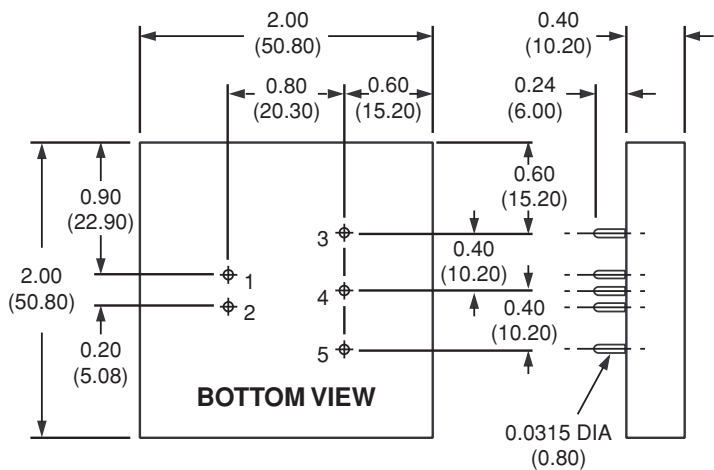
Selection Guide

(Continued)

	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Model Number	Case
<b>SINGLE OUTPUT VOLTAGE</b>	12 (9-18)	5	3000	KW15-12S5	B2
		12	1250	KW15-12S12	B2
		15	1000	KW15-12S15	B2
		24	625	KW15-12S24	B2
	24 (18-36)	5	3000	KW15-24S5	B2
		12	1250	KW15-24S12	B2
		15	1000	KW15-24S15	B2
		24	625	KW15-24S24	B2
	48 (36-72)	5	3000	KW15-48S5	B2
		12	1250	KW15-48S12	B2
		15	1000	KW15-48S15	B2
		24	625	KW15-48S24	B2
<b>DUAL OUTPUTS</b>	12 (9-18)	±5	±1500	KW15-12-5	B2
		±12	±625	KW15-12-12	B2
		±15	±500	KW15-12-15	B2
		±24	±313	KW15-12-24	B2
	24 (18-36)	±5	±1500	KW15-24-5	B2
		±12	±625	KW15-24-12	B2
		±15	±500	KW15-24-15	B2
		±24	±313	KW15-24-24	B2
	48 (36-72)	±5	±1500	KW15-48-5	B2
		±12	±625	KW15-48-12	B2
		±15	±500	KW15-48-15	B2
		±24	±313	KW15-48-24	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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