



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

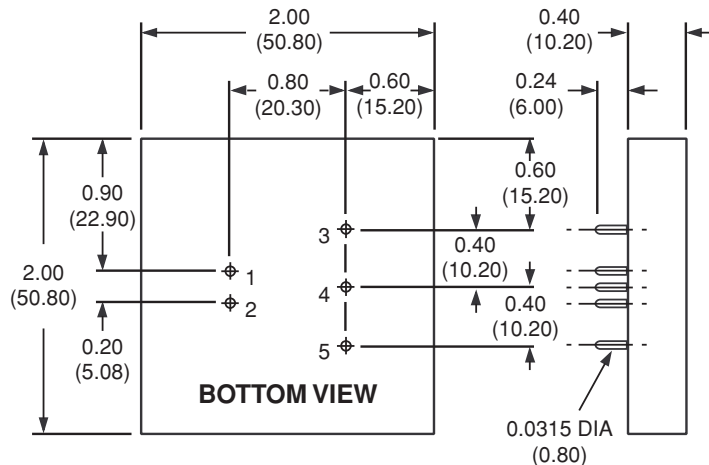
Selection Guide

(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)



POLYTRON DEVICES, Inc.

P.O. Box 398, Paterson, New Jersey 07544 U.S.A.
 Tel: (973)345-5885 Fax: (973)345-1264 • Email: sales@polytrondevices.com • www.polytrondevices.com