

KW25-B2A SERIES

Regulated DC/DC Converters 25 Watt

- **2:1 Input Voltage Range**
- **Low Profile Package (2.0" x 2.0" x 0.45")**
- **High Efficiency**
- **Short Circuit Protection**
- **Over Voltage Protection**
- **Epoxy Encapsulated**
- **Single, Dual and Triple Output Voltages**



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

Input Voltage Range
12V nominal.....9-18 Vdc
24V nominal.....18-36 Vdc
48V nominal.....36-72 Vdc

Voltage Accuracy.....	Single $\pm 1\%$
	Dual $\pm 1\%$(w/Balance Load)
Line Regulation	$\pm 1\%$ Max.
Load Regulation (Full Load to 1/2 Load).....	$\pm 2\%$
Temperature Coefficient (@ Full Load).....	$\pm 0.02\%/^{\circ}\text{C}$
Output Noise and Ripple (20MHz BW).....	1%P-P Max.
Short Circuit Protection.....	Fold Back
Overvoltage Protection.....	Built-in

Isolation Voltage.....	500 Vdc, Min.
Isolation Resistance.....	10 ⁹ Ohms, Min.
Switching Frequency.....	100KHz, typ.

Operating Temperature Range.....	-25° C to +71° C
Storage Temperature Range.....	-55° C to +105° C
Derating.....	None
Cooling.....	Free-Air Convection
EMI/RFL.....	Five-Sided Continuous Shield

Dimensions.....2.0 x 2.0 x 0.45 Inches
Case Material.....Nickel Coated Copper With Non-Conductive Base



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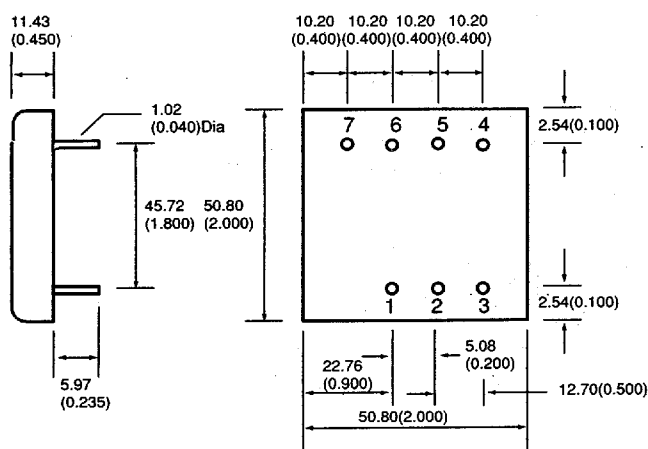
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KW25/B2A SERIES

REGULATED DC/DC CONVERTERS 25 WATT (CONTINUED)

2:1 INPUT RANGE	SINGLE VOLTAGE	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	% EFF	POLYTRON MODEL NUMBER	CASE	PRICE 1-9 QTY
		(Vdc)	(Vdc)	(mA)				
DUAL VOLTAGE	SINGLE VOLTAGE	9-18	5	5000mA	82	KW25-12S5-B2A	B2A	\$115.00
		9-18	12	2000mA	86	KW25-12S12-B2A	B2A	\$115.00
		9-18	15	1500mA	86	KW25-12S15-B2A	B2A	\$115.00
		18-36	5	5000mA	84	KW25-24S5-B2A	B2A	\$115.00
		18-36	12	2000mA	88	KW25-24S12-B2A	B2A	\$115.00
		18-36	15	1500mA	88	KW25-24S15-B2A	B2A	\$115.00
		36-72	5	5000mA	84	KW25-48S5-B2A	B2A	\$115.00
		36-72	12	2000mA	88	KW25-48S12-B2A	B2A	\$115.00
		36-72	15	1500mA	88	KW25-48S15-B2A	B2A	\$115.00
	DUAL VOLTAGE	9-18	±5	±2500mA	82	KW25-12-5-B2A	B2A	\$119.00
		9-18	±12	±1000mA	86	KW25-12-12-B2A	B2A	\$119.00
		9-18	±15	±750mA	86	KW25-12-15-B2A	B2A	\$119.00
		18-36	±5	±2500mA	83	KW25-24-5-B2A	B2A	\$119.00
		18-36	±12	±1000mA	87	KW25-24-12-B2A	B2A	\$119.00
		18-36	±15	±750mA	87	KW25-24-15-B2A	B2A	\$119.00
		36-72	±5	±2500mA	84	KW25-48-5-B2A	B2A	\$119.00
		36-72	±12	±1000mA	88	KW25-48-12-B2A	B2A	\$119.00
		36-72	±15	±750mA	88	KW25-48-15-B2A	B2A	\$119.00

2:1 INPUT RANGE	TRIPLE VOLTAGE	9-18	+5/±12	3000/±400mA	82	KW25-12S5-12-B2A	B2A	\$129.00
		9-18	+5/±15	3000/±300mA	82	KW25-12S5-15-B2A	B2A	\$129.00
		9-18	+5/+12/-5	3000/600/500mA	83	KW25-12S125-B2A	B2A	\$129.00
		18-36	+5/±12	3000/±400mA	83	KW25-24S5-12-B2A	B2A	\$129.00
		18-36	+5/±15	3000/±300mA	83	KW25-24S5-15-B2A	B2A	\$129.00
		18-36	+5/+12/-5	3000/600/500mA	83	KW25-24S125-B2A	B2A	\$129.00
		36-72	+5/±12	3000/±400mA	84	KW25-48S5-12-B2A	B2A	\$129.00
		36-72	+5/±15	3000/±300mA	84	KW25-48S5-15-B2A	B2A	\$129.00
		36-72	+5/+12/-5	3000/600/500mA	84	KW25-48S125-B2A	B2A	\$129.00



PIN	SINGLE	DUAL	TRIPLE
1	+VIN	+VIN	+VIN
2	-VIN	-VIN	-VIN
3	ON/OFF	ON/OFF	ON/OFF
4	TRIM	TRIM	-AUX.OUT
5	-VOUT	-VOUT	COMMON
6	+VOUT	COMMON	+5V OUT
7	NO CONNECT	+VOUT	+AUX.OUT