

Regulated DC/DC Converter 15Watt

2:1 Input Range

KW15 Series

FEATURES:

- Input/Output Isolation
- Efficiency up to 86% @ FL
- Switching Frequency - 100KHz Min.
- Short Circuit Protection
- Six Sided Shielding
- Compact Size
- Single, Dual, Triple Outputs
- Epoxy Encapsulated

SPECIFICATIONS

INPUT

Voltage Range
12Vdc Input: 9-18Vdc
24Vdc Input: 18-36Vdc
48Vdc Input: 36-72Vdc

OUTPUT

Voltage Accuracy: $\pm 1\%$
Line Regulation: $\pm 0.1\%$
Load Regulation: $\pm 0.5\%$
Ripple & Noise (20MHz BW): 50 mV P-P Max
Transient Response: < 250 usec
Protection: Over current protection
Short circuit protection

GENERAL

Efficiency Up to 86% @ FL
Isolation Voltage: 500 Vdc Min.
(Up to 3000 Vdc Min. Optional)
Isolation Resistance: 100 Mohms
Switching Frequency: 100KHz Min.

ENVIRONMENTAL

Operating Temperature Range: -25°C to $+71^{\circ}\text{C}$
Storage Temperature Range: -50°C to $+105^{\circ}\text{C}$
Temperature Coefficient: $0.02\%/^{\circ}\text{C}$ Max
Cooling: Free air convection
EMI/RFI: Five-sided shield
Six-sided shield (optional)

Typical a 25°C under full load and nominal input voltage unless otherwise specified.



15W DC/DC CONVERTER

	INPUT VOLTAGE	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	MODEL NO.	CASE	PRICE 1-9 QTY.
SINGLE OUTPUT	12 VDC (9-18)	5	3000	KW15-12S5	B2	\$89.00
		12	1250	KW15-12S12	B2	\$89.00
		15	1000	KW15-12S15	B2	\$89.00
		24	625	KW15-12S24	B2	\$89.00
	24 VDC (18-36)	5	3000	KW15-24S5	B2	\$89.00
		12	1250	KW15-24S12	B2	\$89.00
		15	1000	KW15-24S15	B2	\$89.00
		24	625	KW15-24S24	B2	\$89.00
	48 VDC (36-72)	5	3000	KW15-48S5	B2	\$89.00
		12	1250	KW15-48S12	B2	\$89.00
		15	1000	KW15-48S15	B2	\$89.00
		24	625	KW15-48S24	B2	\$89.00
DUAL OUTPUT	12 VDC (9-18)	± 5	± 1500	KW15-12-5	B2	\$98.00
		± 12	± 625	KW15-12-12	B2	\$98.00
		± 15	± 500	KW15-12-15	B2	\$98.00
		± 24	± 313	KW15-12-24	B2	\$98.00
	24 VDC (18-36)	± 5	± 1500	KW15-24-5	B2	\$98.00
		± 12	± 625	KW15-24-12	B2	\$98.00
		± 15	± 500	KW15-24-15	B2	\$98.00
		± 24	± 313	KW15-24-24	B2	\$98.00
	48 VDC (36-72)	± 5	± 1500	KW15-48-5	B2	\$98.00
		± 12	± 625	KW15-48-12	B2	\$98.00
		± 15	± 500	KW15-48-15	B2	\$98.00
		± 24	± 313	KW15-48-24	B2	\$98.00

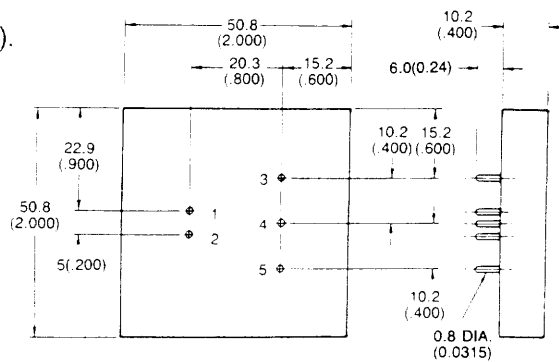
Bottom View:

All Dimensions in mm (inches).

CASE B2

PIN	SINGLE	DUAL
1	+ INPUT	+ INPUT
2	- INPUT	- INPUT
3	+ OUTPUT	+ OUTPUT
4	NO PIN*	COMMON
5	- OUTPUT	- OUTPUT

*TRIM FOR 10W, 15W SERIES



Regulated DC/DC Converter

10W (3.3 Vdc OUTPUT)

FEATURES:

Input/Output Isolation
 Input Filter Pi Network
 Efficiency 80%
 Switching Frequency 100 KHz Min.
 Short Circuit Protection
 Overvoltage Protection
 Remote On/Off Control (Optional)
 Six Sided Shielding
 Epoxy Encapsulated

SPECIFICATIONS:

Typical @ 25°C under full load and nominal input voltage unless otherwise specified.

INPUT

Voltage Range..... See Chart
 Temperature Coefficient (@FL)..... $\pm 0.02\%/^{\circ}\text{C}$ Max.
 Cooling..... Free Air Convection
 EMI/RFI..... Six Sided Continuous Metal Shield
 Input Filter..... Pi Network
 Remote On/Off Control (Optional)
 Supply On = 5.5V or Open Circuit
 Supply Off = 0 - 0.8V
 Logic Input Reference to Minus Input
 Logic Compatibility..... TTL or CMOS

GENERAL

Efficiency (@FL)..... 80% Typical
 Isolation Voltage..... 500 Vdc Min.
 Isolation Resistance..... 100 MOhms
 Switching Frequency..... 100 KHz Min.

PIN	FUNCTION
1.	+ INPUT
2.	- INPUT
3.	+ OUTPUT
4.	TRIM
5.	- OUTPUT
6.	REMOTE ON/OFF



OUTPUT:

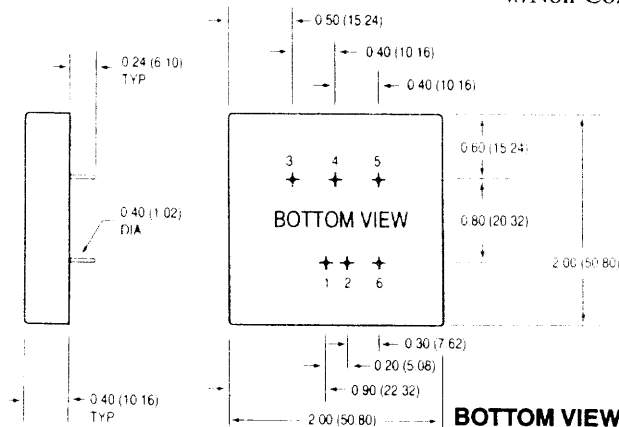
Voltage Accuracy..... $\pm 3\%$ Max.
 Line Regulation (@FL)..... $\pm 0.5\%$ Max.
 Load Regulation (FL to 1/2 L)..... $\pm 1\%$ Max.
 Ripple & Noise (20 MHz BW) 50 mV
 Transient Response (FL to 1/2 FL)..... 200 MSEC Max to 1% Final Value
 Output Protection..... Short Circuit Protection
 Overvoltage Protection

ENVIRONMENTAL:

Operating Temperature Range..... -25°C to $\pm 70^{\circ}\text{C}$
 Storage Temperature Range..... -55°C to $\pm 125^{\circ}\text{C}$

PHYSICAL SPECIFICATIONS:

Case Size..... 2" x 2" x 0.4"
 (50.8 x 50.8 x 10.2 mm)
 Case Material Black Coated Copper
 w/Non-Conductive Metal Base



All dimensions are in inches (mm)

INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	INPUT CURRENT (mA)		MODEL NO.	CASE	PRICE (1-9 QTY)
			NO LOAD	FULL LOAD			
4.5-6	3.3	3000	10	2470	KW10-5S03	B2	\$79.00
9-18	3.3	3000	10	1030	KW10-12S03	B2	\$79.00
18-36	3.3	3000	10	500	KW10-24S03	B2	\$79.00
36-72	3.3	3000	10	246	KW10-48S03	B2	\$79.00