EC4BW SERIES
10 WATT 4:1 INPUT RANGE DC-DC CONVERTERS

FEATURES

* 10W Isolated Output
* 2"x1" Six-Sided Shield Metal Case
* Efficiency to 82%
* 4:1 Input Range
* Pi Input Filter
* Continuous Short Circuit Protection
* Meets EN55022 Class A, Conducted

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CAPACITOR LOAD MAX.
				NO LOAD	FULL LOAD		
EC4BW01	9-36 VDC	5 VDC	2000 mA	15 mA	534 mA	78	2000uF
EC4BW02	9-36 VDC	12 VDC	830 mA	15 mA	520 mA	80	830uF
EC4BW03	9-36 VDC	15 VDC	666 mA	15 mA	520 mA	80	666uF
EC4BW04	9-36 VDC	±12 VDC	±415 mA	20 mA	520 mA	80	T.B.D.
EC4BW05	9-36 VDC	±15 VDC	±333 mA	20 mA	520 mA	80	T.B.D.
EC4BW06	9-36 VDC	±5 VDC	±1000 mA	20 mA	520 mA	80	T.B.D.
EC4BW07	9-36 VDC	3.3 VDC	2000 mA	15 mA	362 mA	76	2000uF
EC4BW11	18-72 VDC	5 VDC	2000 mA	10 mA	260 mA	80	2000uF
EC4BW12	18-72 VDC	12 VDC	830 mA	10 mA	257 mA	81	830uF
EC4BW13	18-72 VDC	15 VDC	666 mA	10 mA	257 mA	81	666uF
EC4BW14	18-72 VDC	±12 VDC	±415 mA	15 mA	257 mA	81	T.B.D.
EC4BW15	18-72 VDC	±15 VDC	±333 mA	15 mA	253 mA	82	T.B.D.
EC4BW16	18-72 VDC	±5 VDC	±1000 mA	15 mA	253 mA	82	T.B.D.
EC4BW17	18-72 VDC	3.3 VDC	2000 mA	10 mA	181 mA	76	2000uF

NOTE: 1. Nominal Input Voltage 24 or 48VDC

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25℃ Unless Otherwise Noted

INPUT SPECIFICATIONS:

Input Voltage Range ...…............. 24V ......….........................…... 9-36V

48V ……..........……............. 18-72V

Input Surge Voltage (100ms max.) …............... 24V …....…........ 50Vdc max.

48V …............. 100Vdc max.

Input Filter ….…..............…….. Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy ….….................….............................. ±1.0% max.

Voltage Balance Dual Output at Full Load ….…...........……........ ±1.0% max.

Transient Response

Single 25% Step Load Change ….…............…..............…..........<500us

Dual FL-1/2L±1% Error Band ….….......…..........….............. <500us

Ripple and Noise, 20MHz BW ….…...................................... 75mV pk-pk max.

Temperature Coefficient ….….......................….......…..... ±0.02%/˚C max.

Short Circuit Protection ….…....................….............. Continuous

Line Regulation (note1)….…...................……...............….......... ±0.2% max.

Load Regulation (note2) ….…..................…......…................... ±1.0% max.

Start up time ….…...................…............. 24Vin …................. 5ms typ.

48Vin …................... 10ms typ.

NOTE:

1. Measured from high line to low line.

2. Measured from full load to 1/4 load.

3. Maximum case temperature under any operating condition should
   not be exceeded 100℃.

GENERAL SPECIFICATIONS:

Efficiency ….…... See Table

Isolation Voltage ….….. 500 VDC

Isolation Resistance ….…....................................…...... 10^9 ohm min.

Isolation Capacitance ….…... 500pF typ.

Switching Frequency ….…... 300KHz typ.

Operating Ambient Temperature Range ….…................. −25℃ to +71℃

De-rating, Above 71˚C ….…................... Linearly to Zero power at 100˚C

Case Temperature (note3) ….…... 100℃ max.

Cooling ….…... Natural Convection

Storage Temperature Range ….…................….............. −40℃ to +100℃

Humidity ….…................................... 95% RH max. Non condensing

MTBF ….….… MIL-STD-217F, GB, 25℃, Full Load ….…..… 750K hrs Typ.

EMI/RFI ….….. Six sided Continuous Shield

Dimensions ….…................. 2.00x1.00x0.40 inches (50.8x25.4x10.2 mm)

Case Material ….…..…. Black Coated Copper with Non-Conductive Base

Weight ….…... 32g

Typical Derating curve for Natural Convection
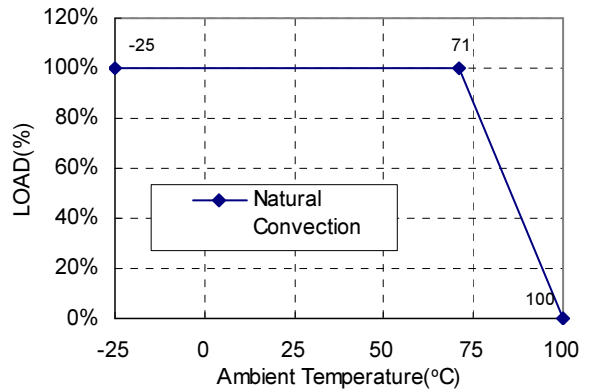
Case B Dimensions:

NOTE: Pin Size is 0.04±0.004 Inch (1.0±0.1 mm)DIA
All Dimensions In Inches (mm)
Tolerances   Inches: X.XX= ±0.04 , X.XXX= ±0.010
         Millimeters: X.X= ±1.0 , X.XX=±0.25

BOTTOM VIEW
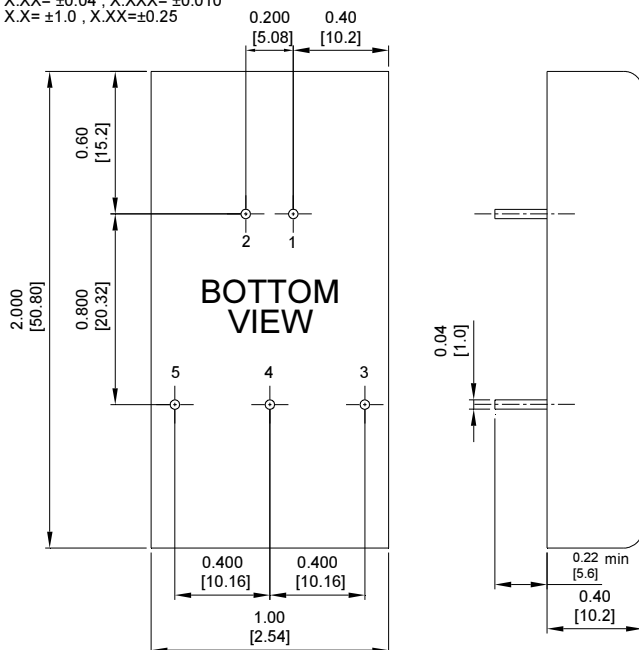
PIN CONNECTION	
Pin	Function
1	+Input
2	-Input
3	+Output
4	Common/NP
5	-Output

*NP-NO PIN ON SINGLE OUTPUT

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