

### 4BW Series

### 10W DC-DC Converters

#### Features

- 10W Isolated Output
- 4:1 Input Range
- 80% Efficiency
- Pi Input Filter
- Low Ripple and Noise
- Continuous Short Circuit Protection
- Conductive EMI Meet EN55022 Class A

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency	Case
				No Load	Full Load		
4BW-01	9-36 VDC	5 VDC	2000 mA	15 mA	542 mA	77	B
4BW-02		12 VDC	830 mA	15 mA	520 mA	80	
4BW-03		15 VDC	666 mA	15 mA	520 mA	80	
4BW-04		±12 VDC	±415 mA	20 mA	520 mA	80	
4BW-05		±15 VDC	±333 mA	20 mA	520 mA	80	
4BW-11	18-72 VDC	5 VDC	2000 mA	10 mA	267 mA	78	B
4BW-12		12 VDC	830 mA	10 mA	260 mA	80	
4BW-13		15 VDC	666 mA	10 mA	260 mA	80	
4BE-14		±12 VDC	±415 mA	15 mA	253 mA	82	
4BE-15		±15 VDC	±333 mA	15 mA	253 mA	82	

Note: Nominal Input Voltage 24 or 48VDC

**Specifications**

**Input Specifications:**

Input Voltage Range.....24V.....9-36V  
 48V.....18-72V  
 Input Filter.....Pi Type

**Output Specifications:**

Voltage Accuracy.....Single output.....+/- 1.0 % max.  
 Dual output.....+/- 1.0 % max.  
 Voltage Balance ( Dual ).....+/- 1.0 % max.  
 Transient Response  
 Single 25% Step Load Change.....<500i sec.  
 Dual FL. 1/2L+/-1% Error Band.....<500i sec.  
 Ripple & Noise, 20 MHz BW......75 mV p-p max.  
 Temperature Coefficient..... +/- 0.02 % /° C max.  
 Short Circuit Protection.....Continuous  
 Line Regulation <sup>1</sup> Single / Dual Output.....+/- 0.2 % max.  
 Load Regulation <sup>2</sup> Single / Dual Output..... +/- 1.0 % max.

**General Specifications :**

Efficiency.....see table  
 Isolation Resistance.....100Mohm  
 Switching Frequency.....200 KHz, min.  
 Operating Temperature Range.....-25° C ~ +71° C  
 Case Temperature.....100° C max.  
 Cooling.....Free air convection  
 Storage Temperature Range.....-40° C ~ +100° C  
 Isolation Voltage.....500VDC min.  
 EMI / RFI.....Six sided shield  
 Dimensions......2" x 1" x 0.4" (50.8 x 25.4 x 10.2 mm)  
 Case Material.....Black Coated Copper with  
 Non-conducted base

Note:

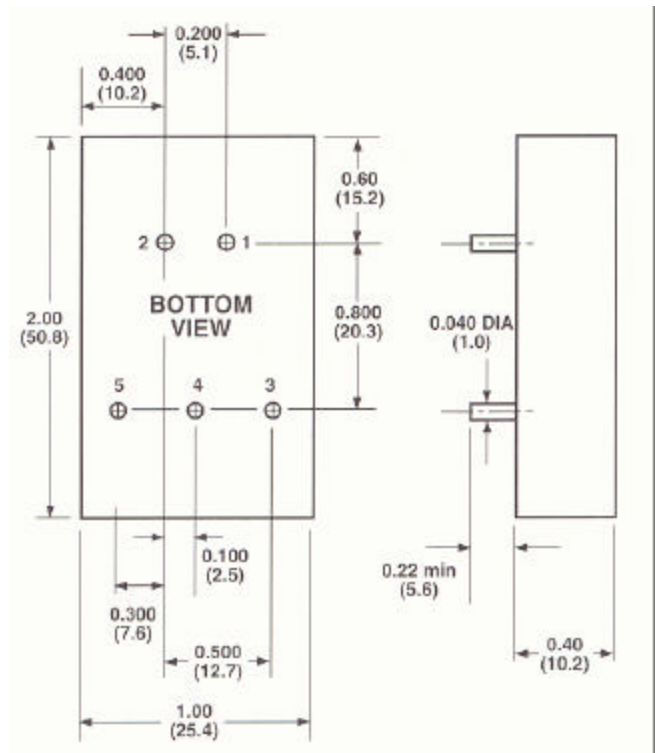
1. Measured from high line to low line;
2. Measured from full load to ¼load

**Outline Information and Pin-out**

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

\* NP---No Pin

All dimensions are in inches [mm]



The information and specifications contained in this brief are believed to be accurate and reliable at the time of publication. Specifications are subject to change without notice. Refer to product specification sheet for performance characteristics and application guidelines.