

5B Series

15W DC-DC Converters

Features

- 15W Isolated Output
- 2:1 Input Range
- 82% 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
			Min.	Max.	No Load	Full Load		
5B-11	18-36 VDC	5 VDC	150 mA	3000 mA	20 mA	800 mA	78	B
5B-12		12 VDC	65 mA	1250 mA	20 mA	780 mA	80	
5B-13		15 VDC	50 mA	1000 mA	20 mA	780 mA	80	
5B-14		±12 VDC	±35mA	±625mA	30 mA	780 mA	80	
5B-15		±15 VDC	±25mA	±500mA	30 mA	780 mA	80	
5B-16		±5 VDC	±75mA	±1500mA	30 mA	780 mA	80	
5B-21	36-72 VDC	5 VDC	150mA	3000mA	10 mA	390 mA	80	B
5B-22		12 VDC	65mA	1250mA	10 mA	380 mA	82	
5B-23		15 VDC	50mA	1000mA	10 mA	380 mA	82	
5B-24		±12 VDC	±35mA	±625mA	15 mA	380 mA	82	
5B-25		±15 VDC	±25mA	±500mA	15 mA	380 mA	82	
5B-26		±5 VDC	±75mA	±1500mA	15 mA	380 mA	82	

Note: Nominal Input Voltage 24, or 48VDC

Specifications

Input Specifications:

Input Voltage Range.....24V.....18-36V
 48V.....36-72V
 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 Regulation¹ Single / Dual Output.....+/- 0.2 % max.
 Load Regulation² Single / Dual Output.....+/- 1 % max.

General Specifications :

Efficiency.....see table
 Isolation Voltage.....500VDC min.
 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
 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:

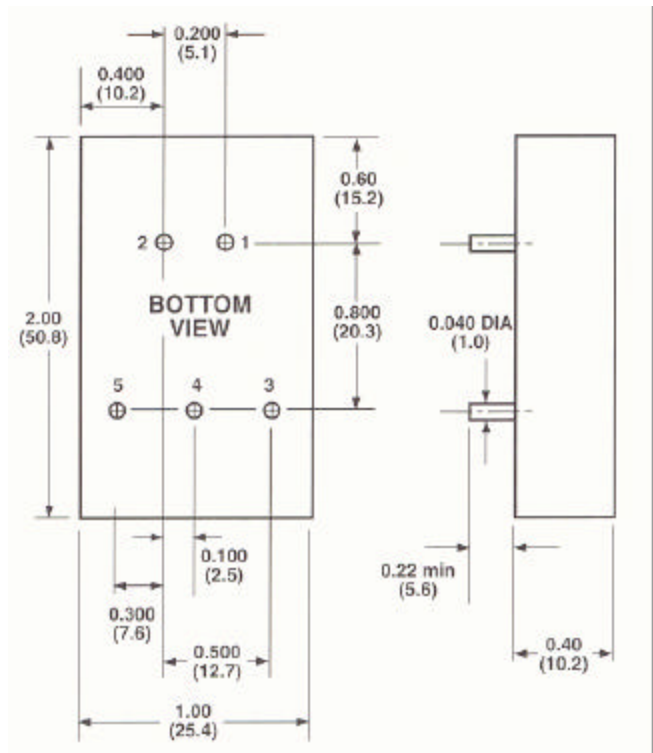
1. Measured from high line to low line;
2. Measured from full load to ¼load;
3. Minimum load on the output is necessary to maintain regulation.

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.