

# EC3B

## 7.5 WATT WIDE INPUT DC-DC CONVERTERS



### Features

- 7.5W Isolated Output
- Efficiency to 82%
- 2:1 Input Range
- Regulated Outputs
- Pi Input Filter
- Continuous Short Circuit Protection

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	% EFF.	CASE
EC3B01	5 VDC	1500 mA	7.5 mA	820 mA	76		
EC3B02	12 VDC	625 mA	7.5 mA	780 mA	80		
EC3B03	15 VDC	500 mA	7.5 mA	780 mA	80		
EC3B04	9-18 VDC	±12 VDC	±310 mA	12 mA	775 mA	80	B
EC3B05	±15 VDC	±250 mA	12 mA	780 mA	80		
EC3B06	±5 VDC	±750 mA	7.5 mA	820 mA	76		
EC3B07	3.3 VDC	1500 mA	7.5 mA	557 mA	74		
EC3B11	5 VDC	1500 mA	5 mA	400 mA	78		
EC3B12	12 VDC	625 mA	5 mA	380 mA	82		
EC3B13	15 VDC	500 mA	5 mA	380 mA	82		
EC3B14	18-36 VDC	±12 VDC	±310 mA	7.5 mA	385 mA	81	B
EC3B15	±15 VDC	±250 mA	7.5 mA	385 mA	81		
EC3B16	±5 VDC	±750 mA	7.5 mA	400 mA	78		
EC3B17	3.3 VDC	1500 mA	5 mA	271 mA	76		
EC3B21	5 VDC	1500 mA	2 mA	200 mA	78		
EC3B22	12 VDC	625 mA	2 mA	192 mA	81		
EC3B23	15 VDC	500 mA	2 mA	192 mA	81		
EC3B24	36-72 VDC	±12 VDC	±310 mA	3 mA	192 mA	81	B
EC3B25	±15 VDC	±250 mA	3 mA	192 mA	81		
EC3B26	±5 VDC	±750 mA	3 mA	200 mA	78		
EC3B27	3.3 VDC	1500 mA	3 mA	136 mA	76		

NOTE: 1. Nominal Input Voltage 12, 24 or 48 VDC

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### Specifications

#### INPUT SPECIFICATIONS:

Input Voltage Range.....	12V.....	9-18V
	24V.....	18-36V
	48V.....	36-72V
Input Filter.....		PI Type

#### OUTPUT SPECIFICATIONS:

Voltage Accuracy.....		± 2.0% max.
Voltage Balance (Dual).....		± 1.0% max.
Temperature Coefficient.....		± 0.05%/°C
Ripple and Noise, 20MHz BW.....	3.3V / 5V.....	100mV p-p max.
	12V / 15V.....	1% p-p max.
Short Circuit Protection.....		Continuous
Line Regulation, Single/Dual.....		± 0.5%
Load Regulation, Single.....		± 0.5%
	Dual.....	± 1.0%

#### GENERAL SPECIFICATIONS:

Efficiency.....		See Table
Isolation Voltage.....		1500 VDC min.
Isolation Resistance.....		10ohms
Switching Frequency.....		100kHz, min.
Operating Temperature Range.....		-25°C to + 71°C
Case Temperature.....		100°C max.
Cooling.....		Free-Air Convection
Storage Temperature Range.....		-40°C to + 100°C
Dimensions.....		2 x 1 x 0.4 inches (50.8 x 25.4 x 10.2mm)

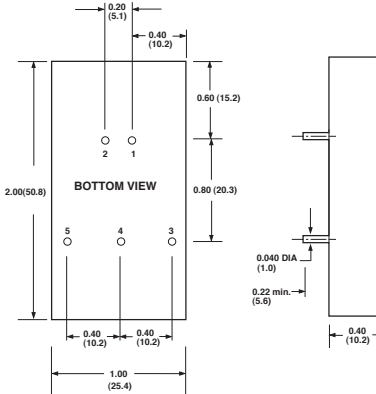
Case Material.....Black Coated Copper With Non-Conductive Base  
Weight.....35g

#### NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to 10% Load
3. Measured From Full Load to 1/4 Load

### CASE B

All Dimensions in Inches(mm)  
Tolerance: .xxx = ±.04, .xxxx = ±.010



#### PIN CONNECTION

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

\*NP=NO PIN

All Specifications Typical At Nominal Line, Full Load and 25°C Unless Otherwise Noted.