

# 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		% EFF.	CASE
				NO LOAD	FULL LOAD		
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

### 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 <sup>1</sup> .....	± 0.5%	
Load Regulation, Single <sup>2</sup> .....	± 0.5%	
	Dual <sup>3</sup> .....	± 1.0%

#### GENERAL SPECIFICATIONS:

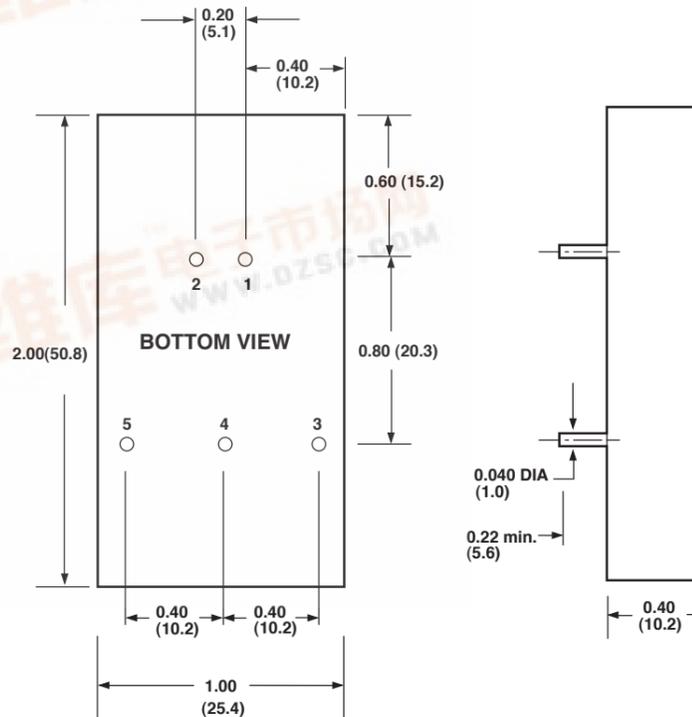
Efficiency.....	See Table
Isolation Voltage.....	1500 VDC min.
Isolation Resistance.....	10 <sup>9</sup> ohms
Switching Frequency.....	100KHz, min.
Operating Temperature Range.....	-25°C to + 71°C
Case Temperature.....	100°C max.
Cooling.....	Free-Air Convection
Storage Temperature Range.....	-40°C to + 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 .xx= ±0.4, .xxx= ±0.10



#### 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.