

# EC3BB

## 7.5 WATT WIDE INPUT DC-DC CONVERTERS



### Features

- 7.5W Isolated Output
- Remote ON/OFF Option
- Efficiency to 82%
- 2:1 Input Range
- Regulated Outputs
- Continuous Short Circuit Protection
- Meets EN55022 Class B, Conducted
- Pi Input Filter

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CASE
				NO LOAD	FULL LOAD		
EC3BB01		5 VDC	1500 mA	7.5 mA	820 mA	76	
EC3BB02		12 VDC	625 mA	7.5 mA	780 mA	80	
EC3BB03		15 VDC	500 mA	7.5 mA	780 mA	80	
EC3BB04	9-18 VDC	±12 VDC	±310 mA	12 mA	775 mA	80	B
EC3BB05		±15 VDC	±250 mA	12 mA	780 mA	80	
EC3BB06		±5 VDC	±750 mA	7.5 mA	820 mA	76	
EC3BB07		3.3 VDC	1500 mA	7.5 mA	557 mA	74	
EC3BB11		5 VDC	1500 mA	5 mA	400 mA	78	
EC3BB12		12 VDC	625 mA	5 mA	380 mA	82	
EC3BB13		15 VDC	500 mA	5 mA	380 mA	82	
EC3BB14	18-36 VDC	±12 VDC	±310 mA	7.5 mA	385 mA	81	B
EC3BB15		±15 VDC	±250 mA	7.5 mA	385 mA	81	
EC3BB16		±5 VDC	±750 mA	7.5 mA	400 mA	78	
EC3BB17		3.3 VDC	1500 mA	5 mA	271 mA	76	
EC3BB21		5 VDC	1500 mA	2 mA	200 mA	78	
EC3BB22		12 VDC	625 mA	2 mA	192 mA	81	
EC3BB23		15 VDC	500 mA	2 mA	192 mA	81	
EC3BB24	36-72 VDC	±12 VDC	±310 mA	3 mA	192 mA	81	B
EC3BB25		±15 VDC	±250 mA	3 mA	192 mA	81	
EC3BB26		±5 VDC	±750 mA	3 mA	200 mA	78	
EC3BB27		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:

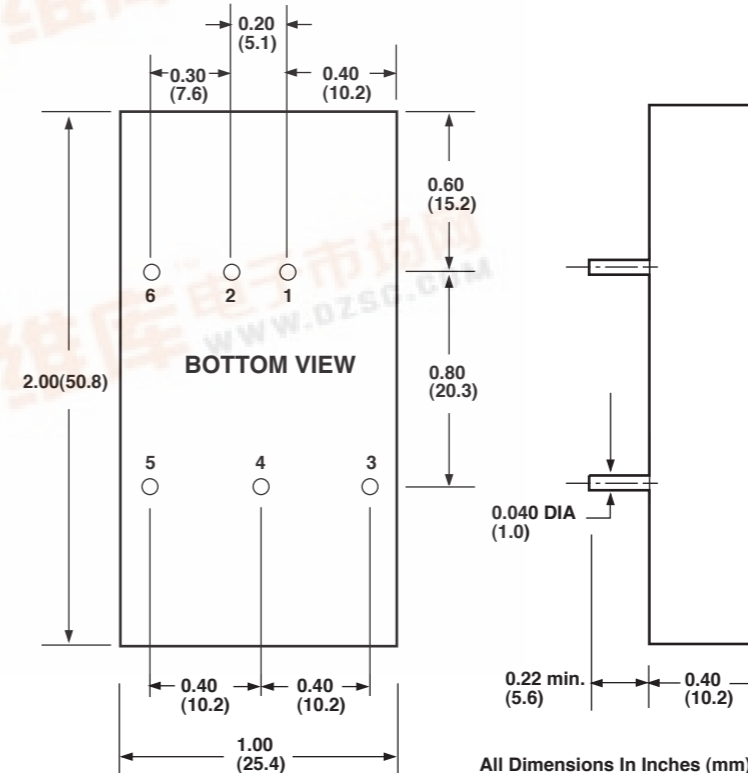
Efficiency.....		See Table
Isolation Voltage.....		1500 VDC min.
Isolation Resistance.....		10 <sup>9</sup> ohms
Switching Frequency.....		100kHz, min.
Operating Temperature Range.....		-25°C to + 71°C
Case Temperature.....		100°C max.
Cooling.....		Free-Air Convection
Storage Temperature Range.....		-40°C to + 100°C
EMI / RFI.....		Conductive EMI Meet EN55022 Class B
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.....		32.5g

#### 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
4. Suffix "T" to the Model Number with Remote ON/OFF

### CASE B

All Dimensions in Inches(mm)  
Tolerance .xx= ±0.04, .xxx= ±0.10



#### Remote On/Off Control

Logic Compatibility	CMOS or Open Collector TTL
Ec-On	>+5.5 VDC or Open Circuit
Ec-Off	<1.8 VDC
Shutdown Idle Current	10mA
Control Common	Referenced to Input Minus

#### PIN CONNECTION

Pin	Function
1.	+Input
2.	-Input
3.	+Output
4.	Common/NP
5.	-Output
6.	NP (Remote ON/OFF)

\*NP-NO PIN