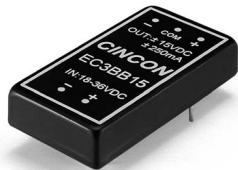


# EC3BB

## 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 NO LOAD	INPUT CURRENT FULL LOAD	% EFF.	CASE
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



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### Specifications

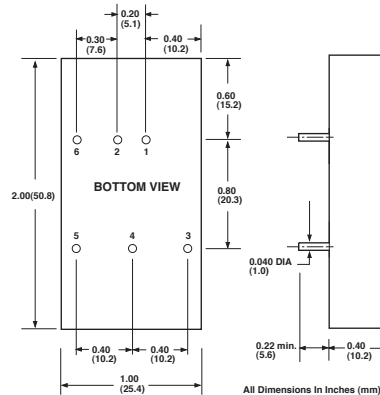
<b>INPUT SPECIFICATIONS:</b>	
Input Voltage Range.....	12V.....9-18V 24V.....18-36V 48V.....36-72V
Input Filter.....	PI Type
<b>OUTPUT SPECIFICATIONS:</b>	
Voltage Accuracy.....	± 2.0% max.
Voltage Balance (Dual).....	± 1.0% max.
Temperature Coefficient.....	± 0.05%/°C
Ripple and Noise, 20MHz BW.....	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%
<b>GENERAL SPECIFICATIONS:</b>	
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: .xxx ±.04, .xxxx ±.010



#### 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

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