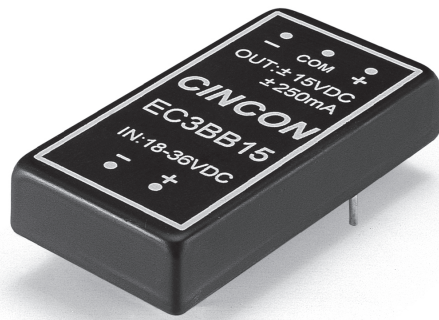


EC3BB

S E R I E S

7.5 WATT EN55022 CLASS B DC-DC CONVERTERS



Features

- 7.5W Isolated Output
- 2"x 1" Case
- Regulated Outputs
- Efficiency to 82%
- Pi Input Filter
- Continuous Short Circuit Protection
- Meets EN55022 Class B, Conducted
- Remote On/Off Control (Option)

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	SIZE
				NO LOAD	FULL LOAD		
EC3BB01	9-18 VDC	5 VDC	1500 mA	7.5 mA	820 mA	76	2" x 1"
EC3BB02		12 VDC	625 mA	7.5 mA	780 mA	80	
EC3BB03		15 VDC	500 mA	7.5 mA	780 mA	80	
EC3BB04		±12 VDC	±310 mA	12 mA	775 mA	80	
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	18-36 VDC	5 VDC	1500 mA	5 mA	400 mA	78	2" x 1"
EC3BB12		12 VDC	625 mA	5 mA	380 mA	82	
EC3BB13		15 VDC	500 mA	5 mA	380 mA	82	
EC3BB14		±12 VDC	±310 mA	7.5 mA	385 mA	81	
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	36-72 VDC	5 VDC	1500 mA	2 mA	200 mA	78	2" x 1"
EC3BB22		12 VDC	625 mA	2 mA	192 mA	81	
EC3BB23		15 VDC	500 mA	2 mA	192 mA	81	
EC3BB24		±12 VDC	±310 mA	3 mA	192 mA	81	
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

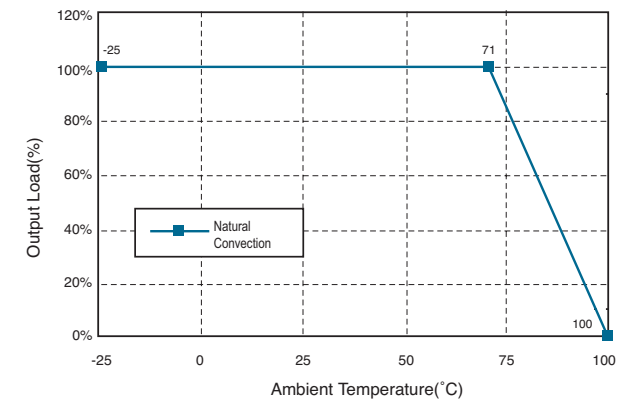
OUTPUT SPECIFICATIONS:

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/Dual¹.....± 0.5% max.
Load Regulation, Single².....± 0.5% max.
Dual³.....± 1.0% max.

GENERAL SPECIFICATIONS:

Efficiency.....See Table
Isolation Voltage.....1500 VDC min.
Isolation Resistance.....10⁹ Ohms
Switching Frequency.....100KHz, min.
Operating Ambient Temperature Range-25°C to +71°C
De-rating, Above 71°CLinearly to Zero power at 100°C
Case Temperature⁵.....100°C max
CoolingNatural Convection
Storage Temperature Range.....-40°C to + 100°C
EMI / RFI.....Conductive EMI Meet EN55022 Class B
Dimensions.....2.00 x 1.00 x 0.40 inches
(50.8 x 25.4 x 10.2mm)
Case Material.....Black Coated Copper With
Non-Conductive Base
Weight.....32.5g

EC3BB Series Derating Curve



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
5. Maximum case temperature under any operating condition should not exceed 100°C.

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

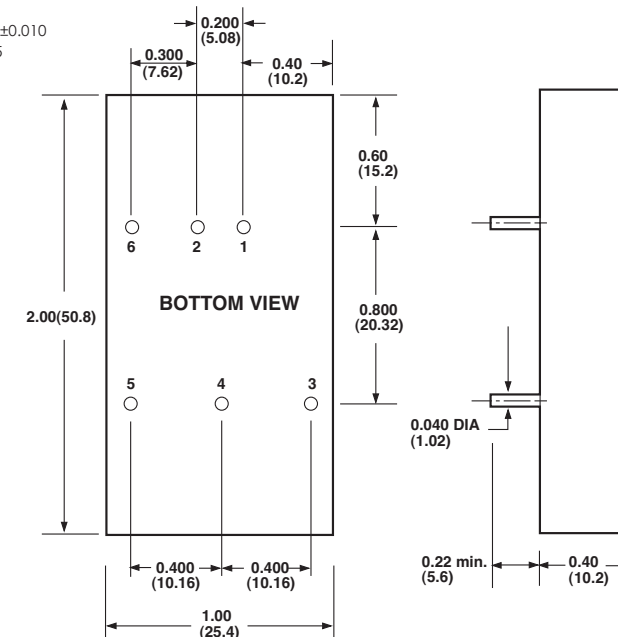
PIN CONNECTION

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

*NP-NO PIN

CASE B

All Dimensions In Inches(mm)
Tolerances Inches: x.xx= ±0.04, x.xxx= ±0.010
Millimeters: x.x= ±1, x.xx= ±0.25



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

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[EC3BB15](#) [EC3BB16](#) [EC3BB17](#) [EC3BB21](#) [EC3BB22](#) [EC3BB23](#) [EC3BB24](#) [EC3BB25](#) [EC3BB26](#) [EC3BB27](#)
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