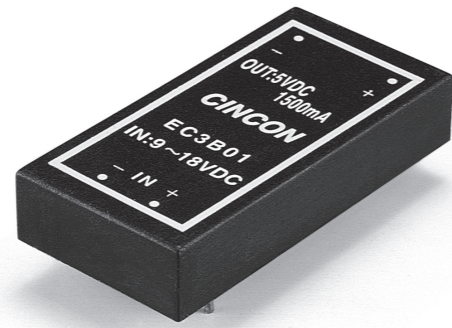


EC3B

S E R I E S

7.5 WATT DC-DC CONVERTERS



Features

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

| MODEL NUMBER | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | INPUT CURRENT | | % EFF. | SIZE |
|--------------|---------------|----------------|----------------|---------------|-----------|--------|---------|
| | | | | NO LOAD | FULL LOAD | | |
| EC3B01 | 9-18 VDC | 5 VDC | 1500 mA | 7.5 mA | 820 mA | 76 | 2" x 1" |
| EC3B02 | | 12 VDC | 625 mA | 7.5 mA | 780 mA | 80 | |
| EC3B03 | | 15 VDC | 500 mA | 7.5 mA | 780 mA | 80 | |
| EC3B04 | | ±12 VDC | ±310 mA | 12 mA | 775 mA | 80 | |
| 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 | 18-36 VDC | 5 VDC | 1500 mA | 5 mA | 400 mA | 78 | 2" x 1" |
| EC3B12 | | 12 VDC | 625 mA | 5 mA | 380 mA | 82 | |
| EC3B13 | | 15 VDC | 500 mA | 5 mA | 380 mA | 82 | |
| EC3B14 | | ±12 VDC | ±310 mA | 7.5 mA | 385 mA | 81 | |
| 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 | 36-72 VDC | 5 VDC | 1500 mA | 2 mA | 200 mA | 78 | 2" x 1" |
| EC3B22 | | 12 VDC | 625 mA | 2 mA | 192 mA | 81 | |
| EC3B23 | | 15 VDC | 500 mA | 2 mA | 192 mA | 81 | |
| EC3B24 | | ±12 VDC | ±310 mA | 3 mA | 192 mA | 81 | |
| 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

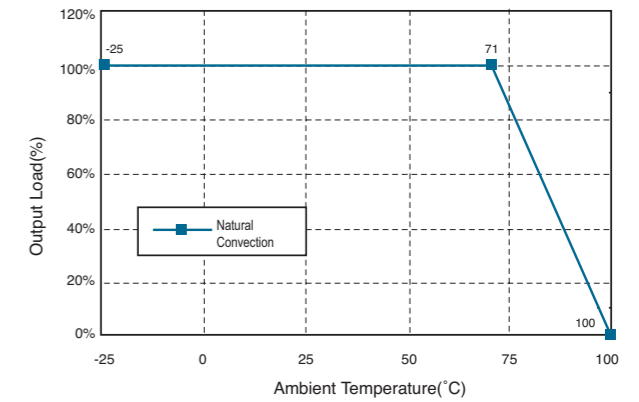
OUTPUT SPECIFICATIONS:

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.....±0.5% max.
 Load Regulation, Single.....±0.5% max.
 Dual.....±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 Temperature.....100°C max
 CoolingNatural Convection
 Storage Temperature Range.....-40°C to +100°C
 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.....35g

EC3B 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. Maximum case temperature under any operating condition should not exceed 100°C.

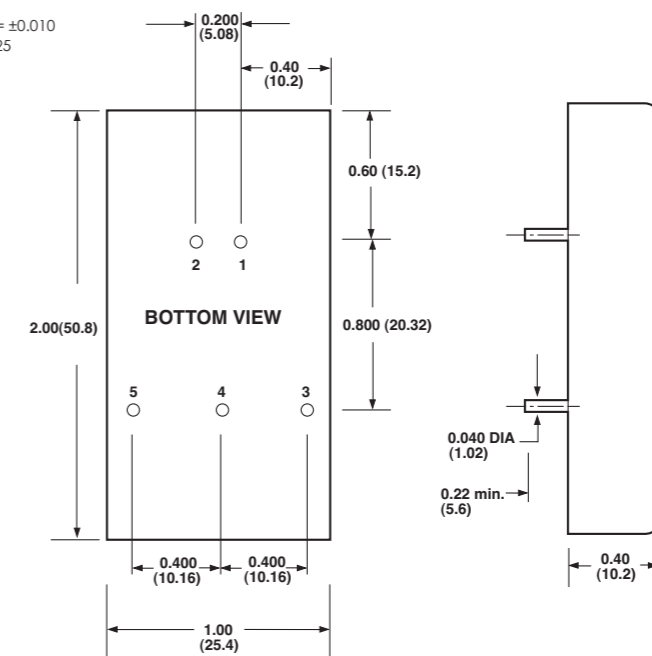
PIN CONNECTION

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

*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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