S E R I E S

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

RSG.
ELECTRONIC COMPONENTS
RSG Electronic Components GmbH ▪ Sprendlinger Landstr. 115 ▪ D-63069 Offenbach/Germany
Tel. +49 69 984047-0 ▪ Fax +49 69 984047-77 ▪ info@rsg-electronic.de ▪ **www.rsg-electronic.de**
Änderungen vorbehalten / subject to change without notice

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[1].....± 0.5%
Load Regulation, Single[2].....± 0.5%
Dual[3].....± 1.0%

GENERAL SPECIFICATIONS:

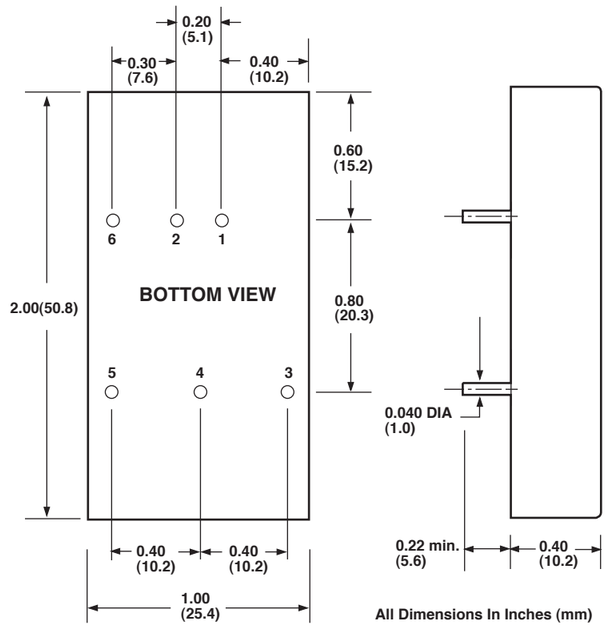
Efficiency.....See Table
Isolation Voltage.....1500 VDC min.
Isolation Resistance.....10^9 ohms
Switching Frequency.....100KHz, min.
Operating Temperature Range.....-25˚C to + 71˚C
Case Temperature.....100˚C max.
Cooling.....Free-Air Convection
Storage Temperature Range.....-40˚C to + 100˚C
EMI / RFI.....Conductive 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= ±.04, .xxx= ±.010



All Dimensions In Inches (mm)

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.