

EC4B

S E R I E S

10 WATT WIDE INPUT DC-DC CONVERTERS



Features

- 10W Isolated output
- Efficiency to 82%
- 2:1 Input Range
- Pi Input Filter
- Continuous Short Circuit Protection
- Meets EN55022 Class A, Conducted

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	CASE
			MIN.	MAX.	NO LOAD	FULL LOAD		
EC4B01	9-18 VDC	5 VDC	100 mA	2000 mA	30 mA	1100 mA	76	B
EC4B02		12 VDC	45 mA	830 mA	30 mA	1065 mA	78	
EC4B03		15 VDC	35 mA	666 mA	30 mA	1065 mA	78	
EC4B04		±12 VDC	±25 mA	±415 mA	40 mA	1065 mA	78	
EC4B05		±15 VDC	±20 mA	±333 mA	40 mA	1065 mA	78	
EC4B06		±5 VDC	±50 mA	±1000 mA	40 mA	1065 mA	78	
EC4B11	18-36 VDC	5 VDC	100 mA	2000 mA	20 mA	535 mA	78	B
EC4B12		12 VDC	45 mA	830 mA	20 mA	520 mA	80	
EC4B13		15 VDC	35 mA	666 mA	20 mA	520 mA	80	
EC4B14		±12 VDC	±25 mA	±415 mA	20 mA	520 mA	80	
EC4B15		±15 VDC	±20 mA	±333 mA	20 mA	520 mA	80	
EC4B16		±5 VDC	±50 mA	±1000 mA	20 mA	520 mA	80	
EC4B21	36-72 VDC	5 VDC	100 mA	2000 mA	10 mA	260 mA	80	B
EC4B22		12 VDC	45 mA	830 mA	10 mA	254 mA	82	
EC4B23		15 VDC	35 mA	666 mA	10 mA	254 mA	82	
EC4B24		±12 VDC	±25 mA	±415 mA	10 mA	254 mA	82	
EC4B25		±15 VDC	±20 mA	±333 mA	10 mA	254 mA	82	
EC4B26		±5 VDC	±50 mA	±1000 mA	10 mA	254 mA	82	
EC4B31	4.7-9 VDC	5 VDC	0 mA	1600 mA	15 mA	2130 mA	75	B
EC4B32		12 VDC	0 mA	666 mA	15 mA	2100 mA	76	
EC4B33		15 VDC	0 mA	533 mA	15 mA	2100 mA	76	
EC4B34		±12 VDC	0 mA	±333 mA	15 mA	2100 mA	76	
EC4B35		±15 VDC	0 mA	±266 mA	15 mA	2100 mA	76	
EC4B36		±5 VDC	0 mA	±800 mA	15 mA	2100 mA	76	

NOTE: 1. Nominal Input Voltage 5, 12, 24 or 48 VDC

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....	5V.....	4.7-9V
	12V.....	9-18V
	24V.....	18-36V
	48V.....	36-72V
Input Filter.....		Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy		
Single Output.....		±1.0% max.
Dual + Output.....		±1.0% max.
Dual - Output.....		±1.0% max.
Voltage Balance (Dual).....		±1.0%/max.
Transient Response		
Single 25 % Step Load Change.....		<500µ sec.
Dual FL 1/2L ±1% Error Band.....		<500µ sec.
Ripple and Noise, 20MHzBW.....		100mV p-p max.
Temperature Coefficient.....		±0.02%/°C max.
Short Circuit Protection.....		Continuous
Line Regulation ¹ Single/Dual Output.....		±0.2%
Load Regulation ² Single/Dual Output.....		±1.0%

GENERAL SPECIFICATIONS:

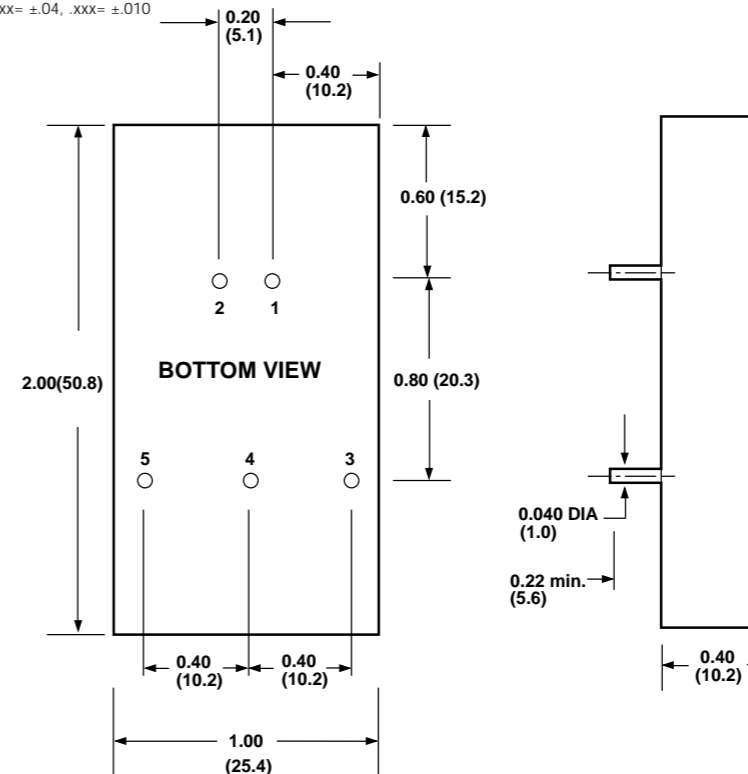
Efficiency.....		See Table
Isolation Voltage.....		500 VDC min.
Isolation Resistance.....		10 ⁹ ohms
Switching Frequency.....		200KHz, min.
Operating Temperature Range.....		-25°C to + 71°C
Case Temperature.....		100°C max.
Cooling.....		Free-Air Convection
Storage Temperature Range.....		-40°C to + 100°C
EMI/RFI.....		Six sided Continuous Shield
Dimensions.....		2 x 1 x 0.4 inches (50.8 x 25.4 x 10.2 mm)
Case Material.....		Black Coated Copper with Non-Conductive Base

NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to 1/4 Load
3. A Minimum Load On the Output is Necessary to Maintain Regulation

CASE B

All Dimensions In Inches(mm)
Tolerance .xx= ±.04, .xxx= ±.010



PIN CONNECTION	
Pin	Function
1.	+Input
2.	-Input
3.	+Output
4.	Common/NP
5.	-Output

NP*-NO PIN ON SINGLE OUTPUT

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