

EC3AE

3 WATT DC-DC CONVERTERS



Features

- 3W Isolated Output
- 24-Pin DIP Package
- Efficiency to 61%
- Regulated Outputs
- Low Ripple and Noise
- LC Input Filter

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	%EFF	CASE
EC3AE01M	5 VDC	5 VDC	600 mA	120 mA	984 mA	61	A
EC3AE02M		12 VDC	250 mA				
EC3AE03M		15 VDC	200 mA				
EC3AE04M		±12 VDC	±125 mA				
EC3AE05M		±15 VDC	±100 mA				
EC3AE11M	12 VDC	5 VDC	600 mA	60 mA	410 mA	61	A
EC3AE12M		12 VDC	250 mA				
EC3AE13M		15 VDC	200 mA				
EC3AE14M		±12 VDC	±125 mA				
EC3AE15M		±15 VDC	±100 mA				
EC3AE21M	24 VDC	5 VDC	600 mA	40 mA	205 mA	61	A
EC3AE22M		12 VDC	250 mA				
EC3AE23M		15 VDC	200 mA				
EC3AE24M		±12 VDC	±125 mA				
EC3AE25M		±15 VDC	±100 mA				
EC3AE31M	28 VDC	5 VDC	600 mA	35 mA	176 mA	61	A
EC3AE32M		12 VDC	250 mA				
EC3AE33M		15 VDC	200 mA				
EC3AE34M		±12 VDC	±125 mA				
EC3AE35M		±15 VDC	±100 mA				
EC3AE41M	48 VDC	5 VDC	600 mA	20 mA	102 mA	61	A
EC3AE42M		12 VDC	250 mA				
EC3AE43M		15 VDC	200 mA				
EC3AE44M		±12 VDC	±125 mA				
EC3AE45M		±15 VDC	±100 mA				

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....±10%
Input Filter.....LC Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy.....±3.0% max.
Temperature Coefficient.....±0.02% / °C
Ripple and Noise, 20MHz BW.....50mV p-p max.
Short Circuit Protection.....Indefinite & Current Limit
Line Regulation¹, Single/Dual.....±0.3% max.
Load Regulation², Single.....±0.5% max.
Dual.....±1.0% max.

GENERAL SPECIFICATIONS:

Efficiency.....See Table
Isolation Capacitance.....150pF Typ.
Isolation Resistance.....10⁹ ohms
Switching Frequency.....80KHz, Typ.
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
Dimensions.....1.25 x 0.8 x 0.4 inches
(31.8 x 20.3 x 10.2mm)
Weight.....17.2g

ISOLATION VOLTAGE:

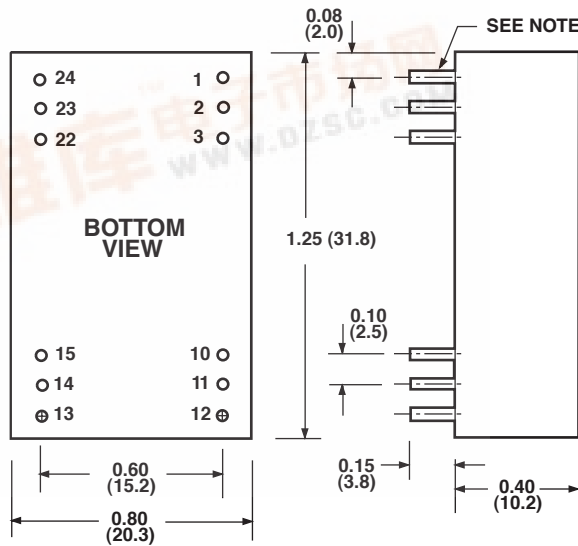
500 VDC min.....Standard Models

CASE MATERIAL:

Standard Models.....Black Coated Copper with
Non-Conductive Base

CASE A

NOTE: Pin Size is 0.02" Inch (0.5mm) DIA
All Dimensions in Inches(mm)
Tolerance .xx= ±0.02, .xxx= ±0.10



PIN CONNECTION

500 VDC		
Pin	Single Output	Dual Output
1 24	+V Input	+V Input
2 23	NC	-V Output
3 22	NC	Common
10	-V Output	Common
11	+V Output	+V Output
12	-V Input	-V Input
13	-V Input	-V Input
14	+V Output	+V Output
15	-V Output	Common

*NC-NO CONNECTION WITH PIN