

# EC3AE

## 3 WATT DC-DC CONVERTERS



### Feature

- 3W Isolated Output
- 24-Pin DIP Package
- Efficiency to 61%
- Regulated Outputs
- Low Ripple and Noise
- PI Input Filter
- Continuous Short Circuit Protection

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF	CASE
				NO LOAD	FULL LOAD		
EC3AE01M		5 VDC	600 mA				
EC3AE02M		12 VDC	250 mA				
EC3AE03M	5 VDC	15 VDC	200 mA	110 mA	984 mA	61	A
EC3AE04M		±12 VDC	±125 mA				
EC3AE05M		±15 VDC	±100 mA				
EC3AE11M		5 VDC	600 mA				
EC3AE12M		12 VDC	250 mA				
EC3AE13M	12 VDC	15 VDC	200 mA	40 mA	410 mA	61	A
EC3AE14M		±12 VDC	±125 mA				
EC3AE15M		±15 VDC	±100 mA				
EC3AE21M		5 VDC	600 mA				
EC3AE22M		12 VDC	250 mA				
EC3AE23M	24 VDC	15 VDC	200 mA	20 mA	205 mA	61	A
EC3AE24M		±12 VDC	±125 mA				
EC3AE25M		±15 VDC	±100 mA				
EC3AE31M		5 VDC	600 mA				
EC3AE32M		12 VDC	250 mA				
EC3AE33M	28 VDC	15 VDC	200 mA	20 mA	176 mA	61	A
EC3AE34M		±12 VDC	±125 mA				
EC3AE35M		±15 VDC	±100 mA				
EC3AE41M		5 VDC	600 mA				
EC3AE42M		12 VDC	250 mA				
EC3AE43M	48 VDC	15 VDC	200 mA	20 mA	102 mA	61	A
EC3AE44M		±12 VDC	±125 mA				
EC3AE45M		±15 VDC	±100 mA				

# Specifications

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

## INPUT SPECIFICATIONS:

Input Voltage Range.....±10%  
 Input Filter.....Pi 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.....Continuous  
 Line Regulation<sup>1</sup>, Single/Dual.....± 0.3% max.  
 Load Regulation<sup>2</sup>, Single.....± 0.5% max.  
     Dual.....± 1.0% max.

## GENERAL SPECIFICATIONS:

Efficiency.....See Table  
 Isolation Capacitance.....150pF Typ.  
 Isolation Resistance.....10<sup>9</sup> ohms  
 Switching Frequency.....80KHz, Typ.  
 Operating Temperature Range.....-25°C to + 71°C  
 Case Temperature (Plastic case).....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)

## ISOLATION VOLTAGE:

500 VDC min.....Standard Models

## CASE MATERIAL:

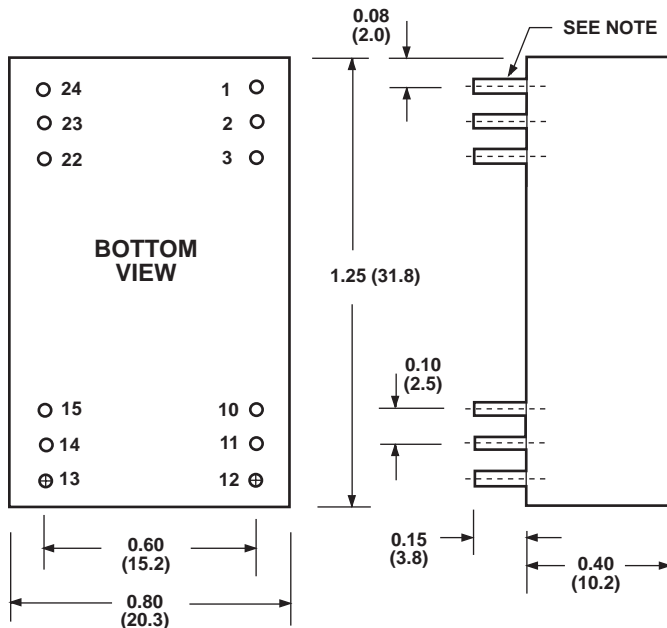
Standard Models.....Black Coated Copper with  
     Non-Conductive Black Plastic

### NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to 10% Load

# CASE A

NOTE: Pin Size is 0.02" Inch (0.5m/m) DIA or .020 x .014 Inch  
 All Dimensions In Inches(mm)



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