

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 | 600 mA | | | | |
| EC3AE02M | | 12 VDC | 250 mA | | | | |
| EC3AE03M | 5 VDC | 15 VDC | 200 mA | 120 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 | 60 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 | 40 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 | 35 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

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
 Dimensions1.25 x 0.8 x 0.4 inches
 (31.8 x 20.3 x 10.2mm)
 Weight.....17.2g

ISOLATION VOLTAGE:

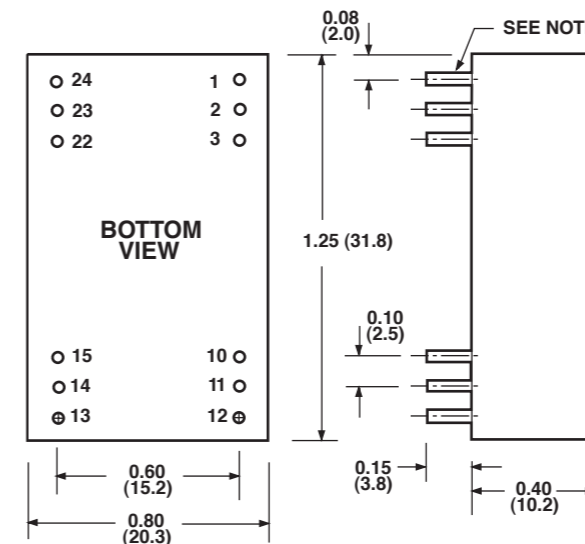
500 VDC min.....Standard Models

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