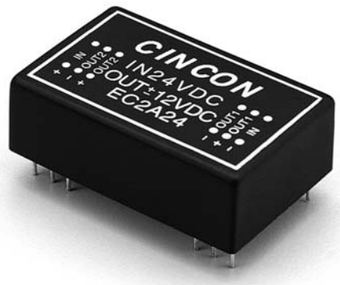
S E R I E S

# EC2A

## 1.5 WATT DC-DC CONVERTERS




## Features

- 24-Pin DIP Package
- Regulated Outputs
- 50% Efficiency
- Pi Input Filter
- Low Ripple and Noise

| MODEL NUMBER | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | INPUT CURRENT NO LOAD | INPUT CURRENT FULL LOAD | CASE |
|---|---|---|---|---|---|---|
| EC2A01 | | 5 VDC | 300 mA | | 620 mA | |
| EC2A02 | | 12 VDC | 125 mA | | 550 mA | |
| EC2A03 | 5 VDC | 15 VDC | 100 mA | 110 mA | 550 mA | A |
| EC2A04 | | ±12 VDC | ±60 mA | | 550 mA | |
| EC2A05 | | ±15 VDC | ±50 mA | | 550 mA | |
| EC2A11 | | 5 VDC | 300 mA | | 260 mA | |
| EC2A12 | | 12 VDC | 125 mA | | 215 mA | |
| EC2A13 | 12 VDC | 15 VDC | 100 mA | 40 mA | 215 mA | A |
| EC2A14 | | ±12 VDC | ±60 mA | | 215 mA | |
| EC2A15 | | ±15 VDC | ±50 mA | | 215 mA | |
| EC2A21 | | 5 VDC | 300 mA | | 130 mA | |
| EC2A22 | | 12 VDC | 125 mA | | 115 mA | |
| EC2A23 | 24 VDC | 15 VDC | 100 mA | 20 mA | 115 mA | A |
| EC2A24 | | ±12 VDC | ±60 mA | | 115 mA | |
| EC2A25 | | ±15 VDC | ±50 mA | | 115 mA | |
| EC2A31 | | 5 VDC | 300 mA | | 110 mA | |
| EC2A32 | | 12 VDC | 125 mA | | 100 mA | |
| EC2A33 | 28 VDC | 15 VDC | 100 mA | 20 mA | 100 mA | A |
| EC2A34 | | ±12 VDC | ±60 mA | | 100 mA | |
| EC2A35 | | ±15 VDC | ±50 mA | | 100 mA | |
| EC2A41 | | 5 VDC | 300 mA | | 65 mA | |
| EC2A42 | | 12 VDC | 125 mA | | 60 mA | |
| EC2A43 | 48 VDC | 15 VDC | 100 mA | 15 mA | 60 mA | A |
| EC2A44 | | ±12 VDC | ±60 mA | | 60 mA | |
| EC2A45 | | ±15 VDC | ±50 mA | | 60 mA | |



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**
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## Specifications

**INPUT SPECIFICATIONS:**

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

**OUTPUT SPECIFICATIONS:**

Voltage Accuracy.....± 4.0% max.
Temperature Coefficient.....± 0.02% / °C
Ripple and Noise, 20MHz BW.....50mV p-p max.
Short Circuit Protection.....Momentary
Line Regulation.....± 0.3%
Load Regulation.....± 0.5%

**GENERAL SPECIFICATIONS:**

Efficiency.....50%
Isolation Capacitance.....30pF
Isolation Resistance.....$10^9$ ohms
Switching Frequency.....20KHz, min
Operating Temperature Range.....-25°C to + 71°C
Case Temperature (Plastic case).....95°C max.
(Copper 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)
Weight.....12.5g

**ISOLATION VOLTAGE:**

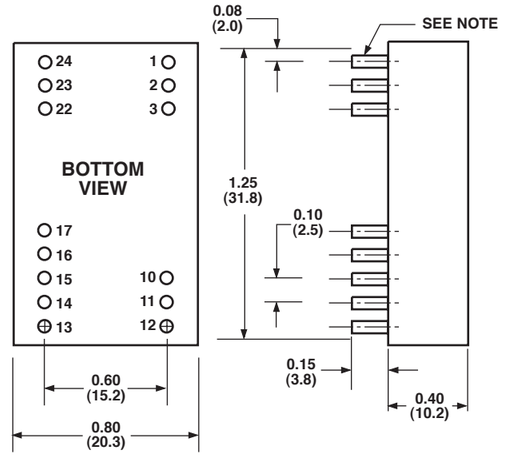
500 VDC min.....Standard Models
3K VDC min.....Suffix "H" Models

**CASE MATERIAL:**

Standard Models.....Non-Conductive Black Plastic
Suffix "M" Models.....Black Coated Copper
with Non-Conductive Base

## CASE A

NOTE:Pin Size is .02" Inch (0.5mm) DIA
All Dimensions In Inches(mm)
Tolerance .xx= ±.02, .xxx= ±.010




**PIN CONNECTION**

| Pin | 500 VDC Single Output | 500 VDC Dual Output | Pin | 3K VDC Single Output | 3K VDC Dual Output |
|---|---|---|---|---|---|
| 1 24 | +V Input | +V Input | 1 2,3 | +V Input | +V Input |
| 2 23 | NC | -V Output | 22,23,24 | -V Input | -V Input |
| 3 22 | NC | Common | 10 11 | NP | Go Output |
| 10 | -V Output | Common | 12 | -V Output | -TP |
| 11 | +V Output | +V Output | 13 | +V Output | -V Output |
| 12 | -V Input | -V Input | 14 | NP | NP |
| 13 | -V Input | -V Input | 15 | NP | +V Output |
| 14 | +V Output | +V Output | 16 | NP | +TP |
| 15 | -V Output | Common | 17 | +TP | NP |

*NP-NO PIN
*TP-TEST POINT
*NC-NO CONNECTION WITH PIN
*GO-GROUND

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