

EC2A

S E R I E S

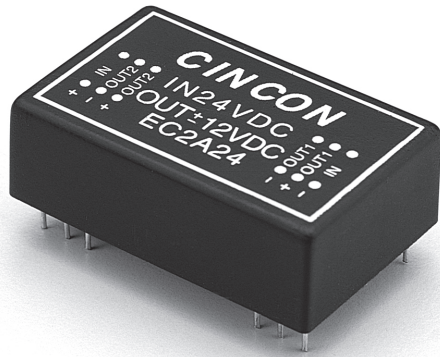
1.5 WATT DC-DC CONVERTERS



Features

- 1.5W Output Power
- DIP-24 / SMD Package
- Regulated Outputs
- Efficiency to 50%
- Pi Input Filter
- Low Ripple and Noise

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



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.....10⁹ ohms
Switching Frequency.....20KHz, min
Operating Ambient Temperature Range-25°C to +71°C
De-rating, Above 71°C(Plastic Case).....Linearly to Zero power at 95°C
De-rating, Above 71°C (Copper Case)...Linearly to Zero power at 100°C
Case Temperature (Plastic case²)95°C max
(Copper case²)100°C max
Cooling Natural Convection
Storage Temperature Range.....-40°C to + 100°C
DimensionsDIP.....1.25 x 0.8 x 0.4 inches
(31.8 x 20.3 x 10.2mm)
SMD.....1.25 x 0.8 x 0.45 inches
(31.8 x 20.3 x 11.4mm)
Weight.....12.5g

ISOLATION VOLTAGE:

500 VDC min.....Standard Models
3K VDC min.....Suffix "H" Models
1.5K VDC min.....Suffix "HM" Models

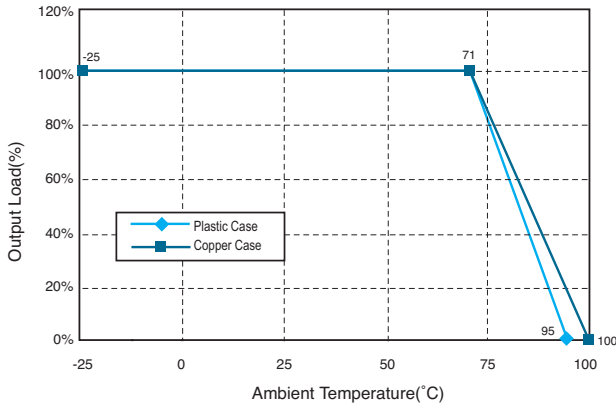
CASE MATERIAL:

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

NOTE:

1. Suffix "S" to the Model Number with SMD packages
2. Maximum case temperature under any operating condition should not exceed 95°C(Plastic Case), 100°C(Copper Case).

EC2A Series Derating Curve



Ambient Temperature(°C)

Output Load(%)

Plastic Case

Copper Case

71

95

100

-25

0

25

50

75

100

120%

100%

80%

60%

40%

20%

0%

Output Load(%)

Ambient Temperature(°C)

Plastic Case

Copper Case

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Mouser Electronics

Authorized Distributor

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