

EC2A SERIES

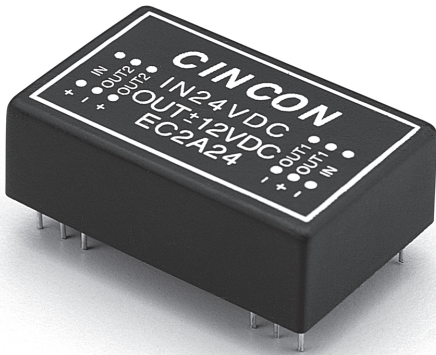
1.5 WATT DC-DC CONVERTERS



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

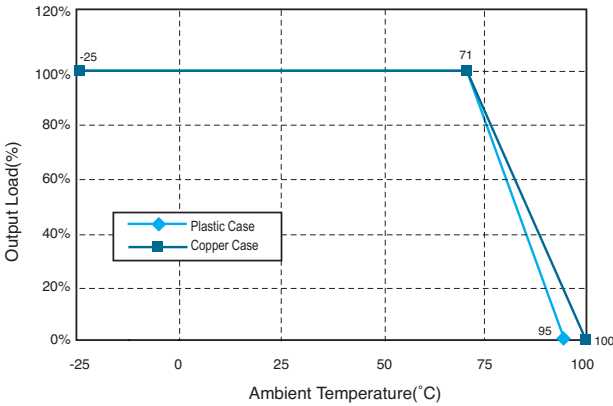
CASE MATERIAL:

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

50

75

100

0

20

40

60

80

100

120

-25

0

25

50

75

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

40

20

0

20

40

60

80

100

120

100

80

60

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cincon:

[EC2A04M](#) [EC2A42M](#) [EC2A03M](#) [EC2A44M](#) [EC2A45M](#) [EC2A25M](#) [EC2A13M](#) [EC2A23M](#) [EC2A12M](#) [EC2A35M](#)
[EC2A33M](#) [EC2A34M](#) [EC2A32M](#) [EC2A03NM](#) [EC2A04NM](#) [EC2A13NM](#) [EC2A11NM](#) [EC2A12NM](#) [EC2A01](#) [EC2A02](#)
[EC2A03](#) [EC2A04](#) [EC2A05](#) [EC2A11](#) [EC2A12](#) [EC2A13](#) [EC2A14](#) [EC2A15](#) [EC2A21](#) [EC2A22](#) [EC2A23](#) [EC2A24](#)
[EC2A25](#) [EC2A31](#) [EC2A32](#) [EC2A33](#) [EC2A34](#) [EC2A35](#) [EC2A41](#) [EC2A42](#) [EC2A43](#) [EC2A44](#) [EC2A45](#) [EC2A03N](#)
[EC2A12N](#) [EC2A13N](#) [EC2A12S](#) [EC2A24HM](#) [EC2A45S](#) [EC2A41S](#) [EC2A05S](#) [EC2A12H](#) [EC2A23S](#) [EC2A21S](#)
[EC2A35H](#) [EC2A42HM](#) [EC2A03HM](#) [EC2A04H](#) [EC2A22HM](#) [EC2A04S](#) [EC2A43HM](#) [EC2A23H](#) [EC2A34S](#) [EC2A44S](#)
[EC2A33HM](#) [EC2A05H](#) [EC2A04HM](#) [EC2A03H](#) [EC2A05HM](#) [EC2A24H](#) [EC2A01M](#) [EC2A02M](#) [EC2A11M](#)
[EC2A21M](#) [EC2A22M](#) [EC2A31M](#) [EC2A41M](#) [EC2A43M](#) [EC2A05M](#) [EC2A14M](#) [EC2A15M](#) [EC2A24M](#) [EC2A02HM](#)
[EC2A21HM](#) [EC2A34H](#) [EC2A13H](#) [EC2A35HM](#) [EC2A41H](#) [EC2A25HM](#) [EC2A32H](#) [EC2A12HM](#) [EC2A25H](#) [EC2A43H](#)
[EC2A14HM](#) [EC2A11S](#) [EC2A01S](#) [EC2A22H](#) [EC2A11HM](#) [EC2A01HM](#) [EC2A15H](#)