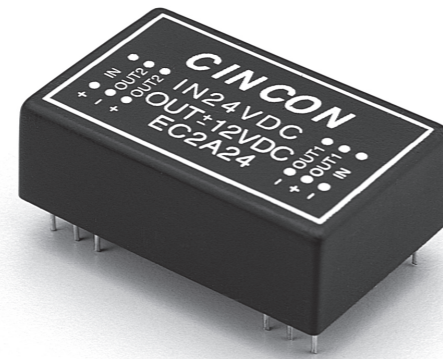


EC2A SERIES

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
 Case Temperature (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

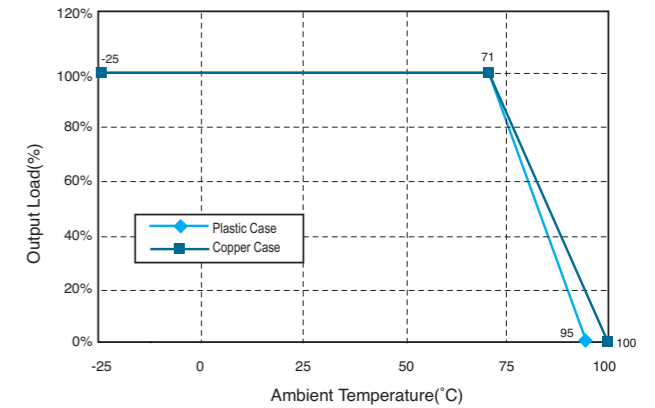
CASE MATERIAL:

Standard Models.....Non-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(%)

Legend: Plastic Case, Copper Case

Pin Connections: 1,2,3; 2,2,3,24; 4; 5; 9; 10,11; 12; 13; 14; 15; 16; 17; 20,21

Output Types: +V Input, -V Input, NP, NC, +V Output, -V Output, +TP, -TP, Go Output

Case Material: NP-NO PIN, TP-TEST POINT, NC-NO CONNECTION WITH PIN, GO-GROUND

Pin Connection Table

500 VDC, 1.5K & 3K VDC

Single Output, Dual Output

DIP, SMD

Pin

1,2,4; 2,2,3; 3,2,2; 4,5; 9; 10; 11; 12,13; 14; 15; 16; 17; 20,21

+V Input, -V Input, NP, NC, +V Output, -V Output, +TP, -TP, Go Output

1.5K & 3K VDC

Single Output, Dual Output

DIP, SMD

Pin

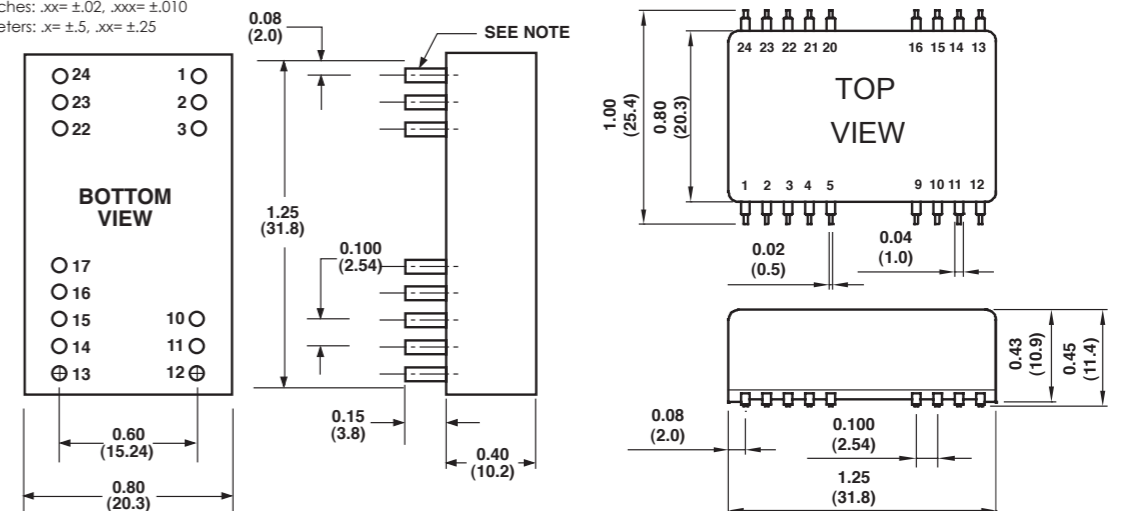
1,2,3; 2,2,3,24; 4; 5; 9; 10,11; 12; 13; 14; 15; 16; 17; 20,21

+V Input, -V Input, NP, NC, +V Output, -V Output, +TP, -TP, Go Output

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

CASE A

NOTE: Pin Size is .02" Inch (0.5mm) DIA
 All Dimensions in Inches(mm)
 Tolerance Inches: .xx= ±.02, .xxx= ±.010
 Millimeters: x= ±.5, .xx= ±.25



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Isolated DC/DC Converters](#) category:

Click to view products by [Cincon](#) manufacturer:

Other Similar products are found below :

[ESM6D044440C05AAQ](#) [FMD15.24G](#) [PSL486-7LR](#) [Q48T30020-NBB0](#) [JAHW100Y1](#) [SPB05C-12](#) [SQ24S15033-PS0S](#) [18952](#) [19-130041](#)
[CE-1003](#) [CE-1004](#) [GQ2541-7R](#) [RDS180245](#) [MAU228](#) [J80-0041NL](#) [DFC15U48D15](#) [XGS-0512](#) [XGS-1205](#) [XGS-1212](#) [XGS-2412](#) [XGS-2415](#) [XKS-1215](#) [06322](#) [NCT1000N040R050B](#) [SPB05B-15](#) [SPB05C-15](#) [L-DA20](#) [DCG40-5G](#) [QME48T40033-PGB0](#) [XKS-2415](#) [XKS-2412](#)
[XKS-1212](#) [XKS-1205](#) [XKS-0515](#) [XKS-0505](#) [XGS-2405](#) [XGS-1215](#) [XGS-0515](#) [PS9Z-6RM4](#) [73-551-5038I](#) [AK1601-9RT](#) [VI-N61-CM](#) [VI-R5022-EXWW](#) [PSC128-7iR](#) [RPS8-350ATX-XE](#) [DAS1004812](#) [PQA30-D24-S24-DH](#) [VI-M5F-CQ](#) [VI-LN2-EW](#) [VI-PJW01-CZY](#)