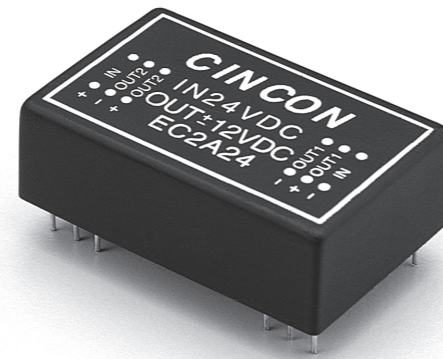


1.5 WATT DC-DC CONVERTERS



Features

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

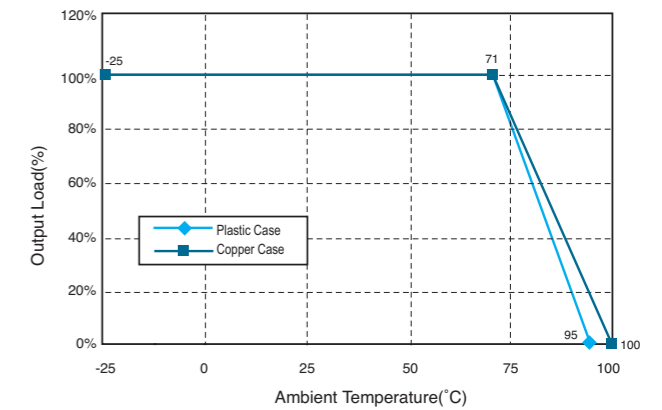
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		CASE
				NO LOAD	FULL LOAD	
EC2A01	5 VDC	5 VDC	300 mA	110 mA	620 mA	DIP-24
EC2A02		12 VDC	125 mA		550 mA	
EC2A03		15 VDC	100 mA		550 mA	
EC2A04		±12 VDC	±60 mA		550 mA	
EC2A05		±15 VDC	±50 mA		550 mA	
EC2A11	12 VDC	5 VDC	300 mA	40 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.....	10 ⁸ 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 case) ²	95°C max
Case Temperature (Copper case) ²	100°C max
Cooling	Natural Convection
Storage Temperature Range.....	-40°C to + 100°C
Dimensions	DIP.....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

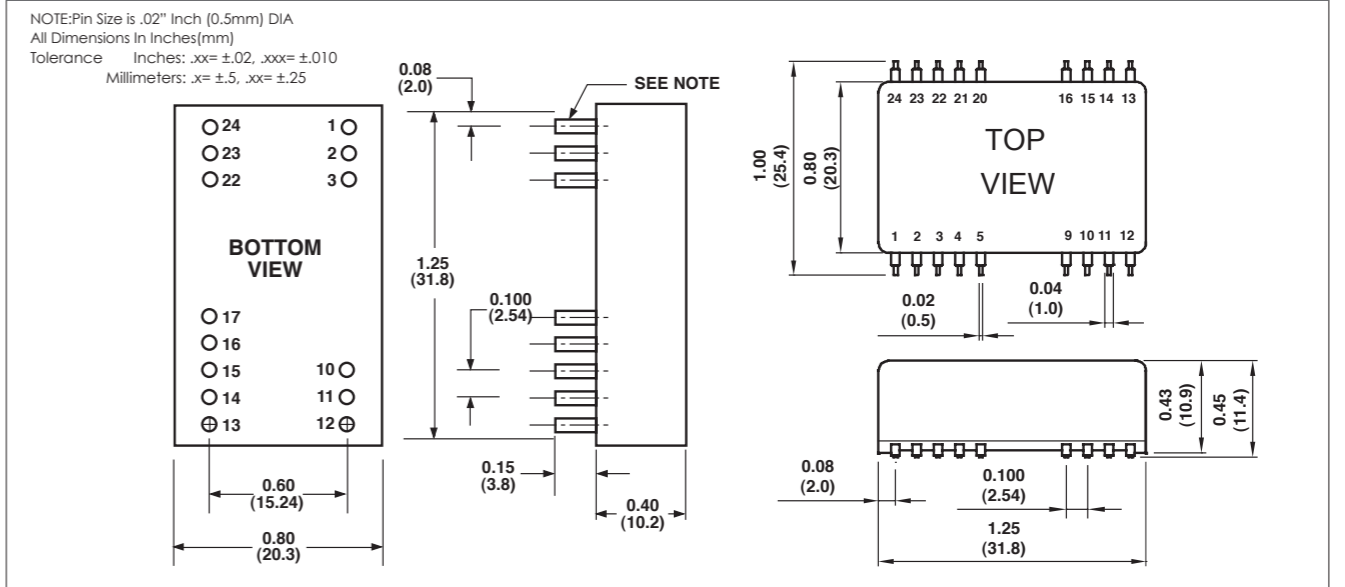


PIN CONNECTION

Pin	500 VDC				1.5K & 3K VDC			
	Single Output DIP	SMD	Dual Output DIP	SMD	Single Output DIP	SMD	Dual Output DIP	SMD
1,24	+V Input	+V Input	+V Input	+V Input	1,2,3	+V Input	+V Input	+V Input
2,23	NC	-V Output	22,23,24	-V Input	-V Input	-V Input	-V Input	-V Input
3,22	NC	Common	4	NP	NC	NP	NC	NC
4,5	NP	NC	NP	NC	5	NP	NC	NP
9	NP	NC	NP	NC	9	NP	NC	NP
10	-V Output	Common	10,11	NP	NC	Go Output	Go Output	Go Output
11	+V Output	+V Output	12	-V Output	-TP	-TP	-TP	-TP
12,13	-V Input	-V Input	13	+V Output	-V Output	-V Output	-V Output	-V Output
14	+V Output	+V Output	14	NP	NC	NP	NC	NP
15	-V Output	Common	15	NP	NC	+V Output	+V Output	+V Output
16	NP	NC	NP	NC	16	NP	NC	+TP
17	NP	NP	17	+TP	NP	NP	NP	NP
20,21	NP	NC	NP	NC	20,21	NP	NC	NP

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

CASE A



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

Mouser Electronics

Authorized Distributor

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[EC2A33M](#) [EC2A34M](#) [EC2A32M](#) [EC2A03NM](#) [EC2A04NM](#) [EC2A13NM](#) [EC2A11NM](#) [EC2A12NM](#) [EC2A01](#) [EC2A02](#)
[EC2A03](#) [EC2A04](#) [EC2A05](#) [EC2A11](#) [EC2A12](#) [EC2A13](#) [EC2A14](#) [EC2A15](#) [EC2A21](#) [EC2A22](#) [EC2A23](#) [EC2A24](#)
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[EC2A12N](#) [EC2A13N](#) [EC2A12S](#) [EC2A24HM](#) [EC2A45S](#) [EC2A41S](#) [EC2A05S](#) [EC2A12H](#) [EC2A23S](#) [EC2A21S](#)
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[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](#)