



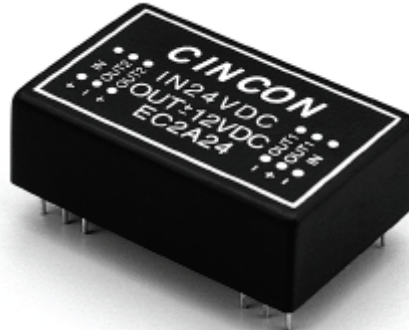
EC2A SERIES

1.5 WATT

DC-DC CONVERTERS

FEATURES

- * 1.5W Output Power
- * DIP-24/SMD Package
- * Efficiency to 50%
- * Regulated Outputs
- * 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	5 VDC	12 VDC	125 mA	110 mA	550 mA	DIP-24
EC2A03	5 VDC	15 VDC	100 mA	110 mA	550 mA	DIP-24
EC2A04	5 VDC	±12 VDC	±60 mA	110 mA	550 mA	DIP-24
EC2A05	5 VDC	±15 VDC	±50 mA	110 mA	550 mA	DIP-24
EC2A11	12 VDC	5 VDC	300 mA	40 mA	260 mA	DIP-24
EC2A12	12 VDC	12 VDC	125 mA	40 mA	215 mA	DIP-24
EC2A13	12 VDC	15 VDC	100 mA	40 mA	215 mA	DIP-24
EC2A14	12 VDC	±12 VDC	±60 mA	40 mA	215 mA	DIP-24
EC2A15	12 VDC	±15 VDC	±50 mA	40 mA	215 mA	DIP-24
EC2A21	24 VDC	5 VDC	300 mA	20 mA	130 mA	DIP-24
EC2A22	24 VDC	12 VDC	125 mA	20 mA	115 mA	DIP-24
EC2A23	24 VDC	15 VDC	100 mA	20 mA	115 mA	DIP-24
EC2A24	24 VDC	±12 VDC	±60 mA	20 mA	115 mA	DIP-24
EC2A25	24 VDC	±15 VDC	±50 mA	20 mA	115 mA	DIP-24
EC2A31	28 VDC	5 VDC	300 mA	20 mA	110 mA	DIP-24
EC2A32	28 VDC	12 VDC	125 mA	20 mA	100 mA	DIP-24
EC2A33	28 VDC	15 VDC	100 mA	20 mA	100 mA	DIP-24
EC2A34	28 VDC	±12 VDC	±60 mA	20 mA	100 mA	DIP-24
EC2A35	28 VDC	±15 VDC	±50 mA	20 mA	100 mA	DIP-24
EC2A41	48 VDC	5 VDC	300 mA	15 mA	65 mA	DIP-24
EC2A42	48 VDC	12 VDC	125 mA	15 mA	60 mA	DIP-24
EC2A43	48 VDC	15 VDC	100 mA	15 mA	60 mA	DIP-24
EC2A44	48 VDC	±12 VDC	±60 mA	15 mA	60 mA	DIP-24
EC2A45	48 VDC	±15 VDC	±50 mA	15 mA	60 mA	DIP-24

SPECIFICATIONS

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

INPUT SPECIFICATIONS:

Input Voltage Range ±10%
 Input Filter PI Type

OUTPUT SPECIFICATIONS:

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

GENERAL SPECIFICATIONS:

Efficiency 50%
 Isolation Capacitance 30pF
 Isolation Resistance 10⁹ ohm
 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 note 2) 95°C max.
 (Copper case note 2) 100°C max.
 Cooling Natural Convection
 Storage Temperature Range -40°C to +100°C
 Dimensions DIP 1.25×0.80×0.40 inches (31.8×20.3×10.2mm)
 SMD 1.25×0.80×0.45 inches (31.8×20.3×11.4mm)
 Weight 12.5g

ISOLATION VOLTAGE:

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

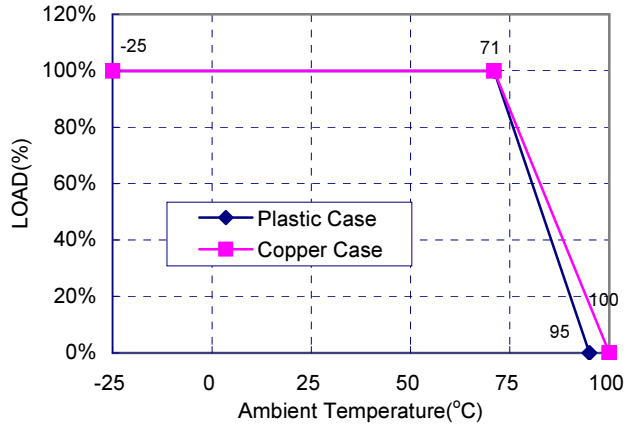
CASE MATERIAL:

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

NOTE:

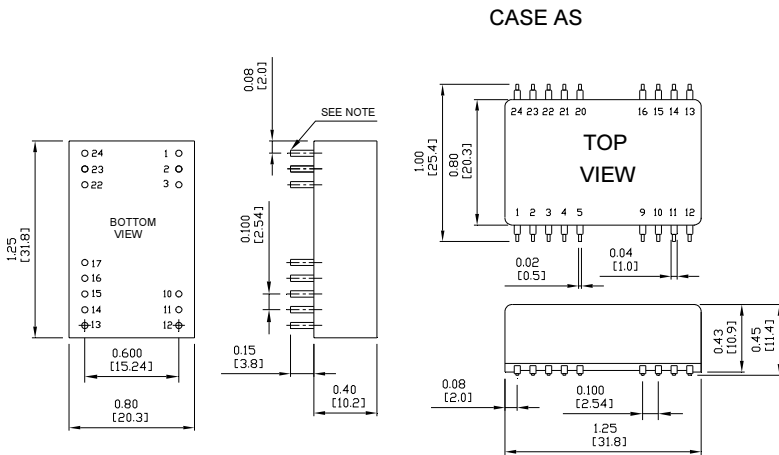
- Suffix "S" to the Model Number with SMD packages.
- Maximum case temperature under any operating condition should not be exceeded 95°C (Plastic Case), 100°C (Copper Case).

Typical Derating curve for Natural Convection



Case A Dimensions:

NOTE: Pin Size is 0.02" Inch (0.5mm) DIA ±0.05
 All Dimensions In Inches (mm)
 Tolerances Inches: X.XX= ±0.02, X.XXX= ±0.010
 Millimeters: X.X= ±0.5, X.XX= ±0.25



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

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

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