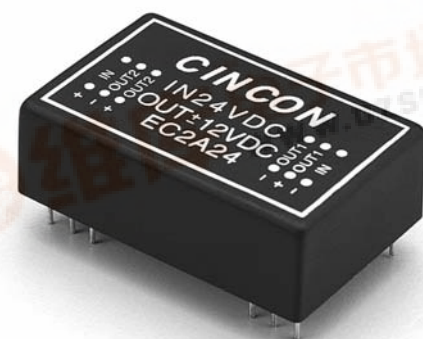


# EC2A

## 1.5 WATT DC-DC CONVERTERS



### Features

- 24-Pin DIP Package
- Regulated Outputs
- 50% Efficiency
- 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	300 mA		620 mA	
EC2A02		12 VDC	125 mA		550 mA	
EC2A03	5 VDC	15 VDC	100 mA	110 mA	550 mA	A
EC2A04		±12 VDC	±60 mA		550 mA	
EC2A05		±15 VDC	±50 mA		550 mA	
EC2A11		5 VDC	300 mA		260 mA	
EC2A12		12 VDC	125 mA		215 mA	
EC2A13	12 VDC	15 VDC	100 mA	40 mA	215 mA	A
EC2A14		±12 VDC	±60 mA		215 mA	
EC2A15		±15 VDC	±50 mA		215 mA	
EC2A21		5 VDC	300 mA		130 mA	
EC2A22		12 VDC	125 mA		115 mA	
EC2A23	24 VDC	15 VDC	100 mA	20 mA	115 mA	A
EC2A24		±12 VDC	±60 mA		115 mA	
EC2A25		±15 VDC	±50 mA		115 mA	
EC2A31		5 VDC	300 mA		110 mA	
EC2A32		12 VDC	125 mA		100 mA	
EC2A33	28 VDC	15 VDC	100 mA	20 mA	100 mA	A
EC2A34		±12 VDC	±60 mA		100 mA	
EC2A35		±15 VDC	±50 mA		100 mA	
EC2A41		5 VDC	300 mA		65 mA	
EC2A42		12 VDC	125 mA		60 mA	
EC2A43	48 VDC	15 VDC	100 mA	15 mA	60 mA	A
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%

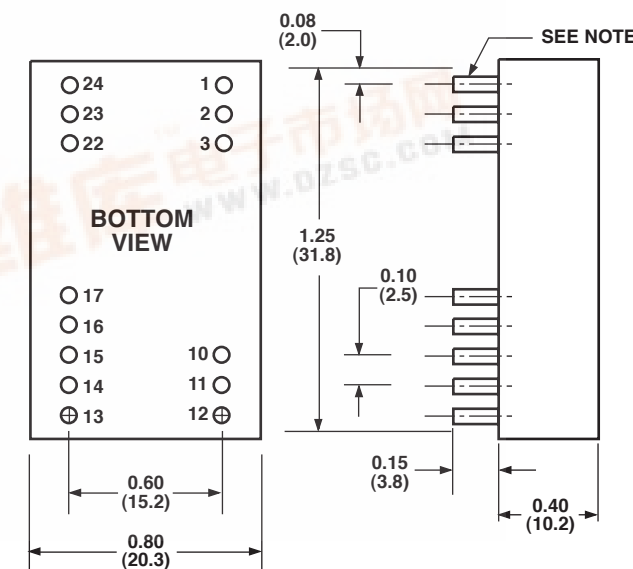
**GENERAL SPECIFICATIONS:**  
 Efficiency.....50%  
 Isolation Capacitance.....30pF  
 Isolation Resistance.....10<sup>9</sup> ohms  
 Switching Frequency.....20KHz, min  
 Operating Temperature Range.....-25°C to + 71°C  
 Case Temperature (Plastic case).....95°C max.  
 (Copper case).....100°C max.  
 Cooling.....Free-Air Convection  
 Storage Temperature Range.....-40°C to + 100°C  
 Dimensions .....1.25 x 0.8 x 0.4 inches  
 (31.8 x 20.3 x 10.2mm)  
 Weight.....12.5g

**ISOLATION VOLTAGE:**  
 500 VDC min.....Standard Models  
 3K VDC min.....Suffix "H" Models

**CASE MATERIAL:**  
 Standard Models.....Non-Conductive Black Plastic  
 Suffix "M" Models.....Black Coated Copper  
 with Non-Conductive Base

### CASE A

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



PIN CONNECTION							
Pin	500 VDC		Pin	3K VDC			
	Single Output	Dual Output		Single Output	Dual Output		
1	24	+V Input	+V Input	1	2,3	+V Input	+V Input
2	23	NC	-V Output	-V Output	22,23,24	-V Input	-V Input
3	22	NC	Common	Common	10,11	NP	Go Output
10		-V Output	Common	-V Output	12	-V Output	-TP
11		+V Output	+V Output	+V Output	13	+V Output	-V Output
12		-V Input	-V Input	NP	14	NP	NP
13		-V Input	-V Input	NP	15	NP	+V Output
14		+V Output	+V Output	NP	16	NP	+TP
15		-V Output	Common	17	+TP	NP	NP

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