

EC2A

1.5 WATT DC-DC CONVERTERS



Feature

- 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 NO LOAD	INPUT CURRENT FULL LOAD	CASE
EC2A01	5 VDC	5 VDC	300 mA	110 mA	620 mA	A
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	A
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	A
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	A
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	A
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 ⁹ 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)

ISOLATION VOLTAGE:

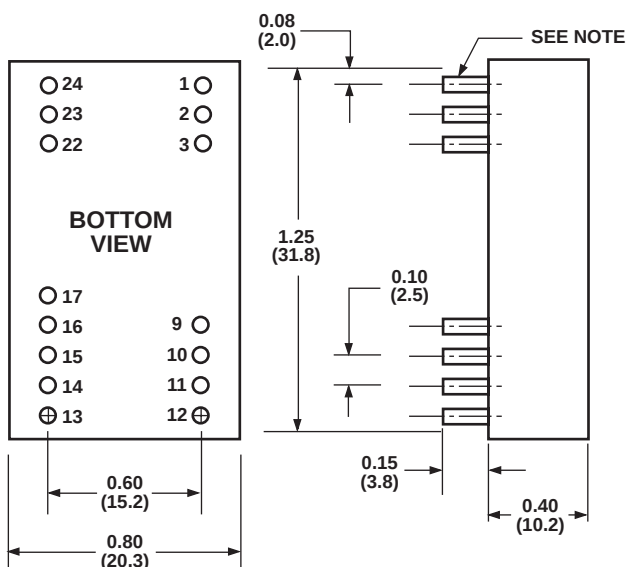
500 VDC min.....	Standard Models
3K VDC min.....	Suffix "H" Models

CASE MATERIAL:

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

CASE A

NOTE: Pin Size is 0.02" Inch (0.5mm) DIA or .020 x .014 Inch
All Dimensions In Inches(mm)



PIN CONNECTION					
500 VDC			3K VDC		
Pin	Single Output	Dual Output	Pin	Single Output	Dual Output
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	10 11	NP	Go Output
10	-V Output	Common	12	-V Output	-TP
11	+V Output	+V Output	13	+V Output	-V Output
12	-V Input	-V Input	14	NP	NP
13	-V Input	-V Input	15	NP	+V Output
14	+V Output	+V Output	16	NP	+TP
15	-V Output	Common	17	+TP	NP

*NP-NO PIN

*TP-TEST POINT

*NC-NO CONNECTION WITH PIN

*GO-GROUND