

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	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.....10⁹ 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:

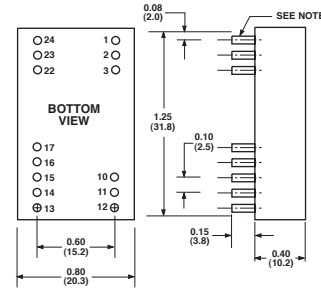
500 VDC min.....Standard Models
 3K VDC min.....Suffix "H" Models

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 .xxx = ±.02, .xxxx = ±.010



Pin	500 VDC		Pin	3K VDC	
	Single Output	Dual Output		Single Output	Dual Output
1	+V Input	+V Input	1, 2, 3	+V Input	+V Input
2	NC	-V Output	2, 23, 24	-V Input	-V Input
3	NC	Common	10, 11	NP	Go Output
10	-V Output	Common	12	-V Output	-IP
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	+IP
15	-V Output	Common	17	+IP	NP

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



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