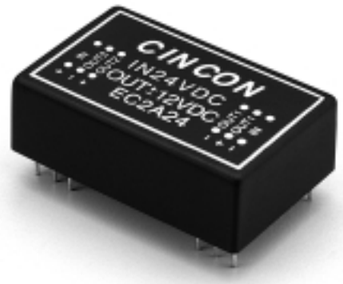
S E R I E S

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 NO LOAD	INPUT CURRENT FULL LOAD	CASE
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.....10^9 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:

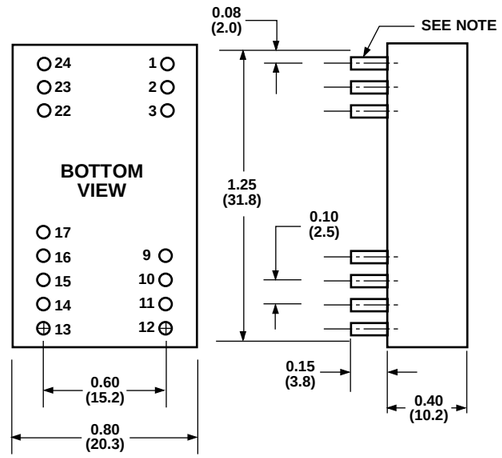
500 VDC min.....Standard Models
3K VDC min.....Suffix "H" Models

CASE MATERIAL:

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

CASE A

NOTE:Pin Size is .02" Inch (0.5mm) DIA or .020 x .014 Inch
All Dimensions In Inches(mm)
Tolerance .xx= ±.02, .xxx= ±.010



PIN CONNECTION

Pin	500 VDC Single Output	500 VDC Dual Output	Pin	3K VDC Single Output	3K VDC 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
*NC-NO CONNECTION WITH PIN
*TP-TEST POINT
*GO-GROUND

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