

2A-N Series

1.0 To 1.5W DC-DC Converters

Features

- 24-Pin DIP Package
- Pi Input Filter
- Unregulated Outputs
- Low Ripple and Noise
- 70% Efficiency

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		Case
				No Load	Full Load	
2A-01N		5 VDC	220 mA	115 mA	330 mA	A
2A-02N		12 VDC	125 mA	115mA	420 mA	A
2A-03N	5VDC	15 VDC	100 mA	115mA	420 mA	A
2A-04N		±12 VDC	±62 mA	115 mA	420 mA	A
2A-05N		±15 VDC	±50 mA	115 mA	420 mA	A
2A-11N		5 VDC	220 mA	45 mA	120 mA	A
2A-12N		12 VDC	125 mA	45 mA	165 mA	A
2A-13N	12VDC	15 VDC	100 mA	45 mA	165 mA	A
2A-14N		±12 VDC	±62 mA	45 mA	165 mA	A
2A-15N		±15 VDC	±50 mA	45 mA	165 mA	A

Specifications

Input Specifications:

Input Voltage Range.....10%

Input Filter.....Pi Type

Output Specifications:

Voltage Accuracy.....+/- 3.0 % max.

Ripple & Noise, 20 MHz BW..... 100 mV p-p max.

Temperature Coefficient..... +/- 0.02 % /°C max.

Short Circuit Protection.....Momentary

Line Regulation²+/- 1.2 % max.

Load Regulation³, EC2A01N.....+/- 8.0 % max.

All other models.....+/- 6.0 % max.

General Specifications :

Efficiency.....60%–80%

Isolation Capacitance.....30pF

Isolation Resistance.....100Mohm

Switching Frequency.....20 KHz, min.

Operating Temperature Range.....-25° C ~ +71° C

Case Temperature.....100° C max.

Cooling.....Free air convection

Storage Temperature Range.....-40° C ~ +100° C

Isolation Voltage.....500VDC min.

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

Dimensions.....1.25" x 0.8" x 0.4 "(31.8 x 20.3 x 10.2 mm)

Case Material.....Non-Conductive Black Plastic

Suffix "M" Models(Material).....Black Coated Copper with

Non-conducted base

Outline Information and Pin-out

PIN CONNECTION					
500VDC			3K VDC		
PIN	Single Output	Dual Output	PIN	Single Output	Dual Output
1	24	+V input	1	2,3	+V input
2	23	NC	22, 23, 24	-V input	-V input
3	22	NC	10	11	NP
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

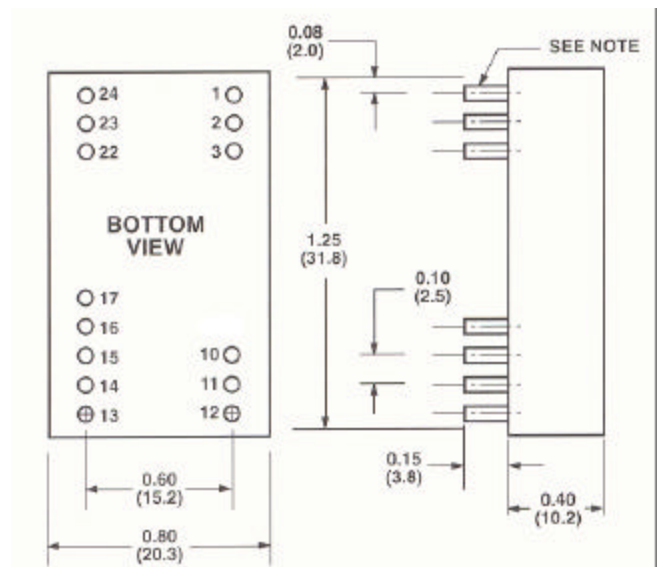
* Go---Ground

Note:

1. 15uF 35V, Tantalum capacitor across each output.
2. Line regulation is per 1.0% change in input voltage
3. Load regulation is for load change from 100% to 20%

All dimensions are in inches [mm]

All pins sizes are dia. 0.02" [0.508mm] and 0.14"[0.35mm] length



The information and specifications contained in this brief are believed to be accurate and reliable at the time of publication. Specifications are subject to change without notice. Refer to product specification sheet for performance characteristics and application guidelines.