

2A Series

1.5W 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		% Efficiency	Case
				No Load	Full Load		
2A-01	5VDC	5 VDC	300 mA	110 mA	620 mA	50	A
2A-02		12 VDC	125 mA		550 mA	50	A
2A-03		15 VDC	100 mA		550 mA	50	A
2A-04		±12 VDC	±60 mA		550 mA	50	A
2A-05		±15 VDC	±50 mA		550 mA	50	A
2A-11	12VDC	5 VDC	300 mA	40 mA	260 mA	53	A
2A-12		12 VDC	125 mA		215 mA	53	A
2A-13		15 VDC	100 mA		215 mA	54	A
2A-14		±12 VDC	±60 mA		215 mA	54	A
2A-15		±15 VDC	±50 mA		215 mA	54	A
2A-21	24VDC	5 VDC	300 mA	20 mA	130 mA	55	A
2A-22		12 VDC	125 mA		115 mA	55	A
2A-23		15 VDC	100 mA		115 mA	56	A
2A-24		±12 VDC	±60 mA		115 mA	56	A
2A-25		±15 VDC	±50 mA		115 mA	56	A
2A-31	28VDC	5 VDC	300 mA	20 mA	110 mA	56	A
2A-32		12 VDC	125 mA		100 mA	56	A
2A-33		15 VDC	100 mA		100 mA	56	A
2A-34		±12 VDC	±60 mA		100 mA	56	A
2A-35		±15 VDC	±50 mA		100 mA	56	A
2A-41	48VDC	5 VDC	300 mA	15 mA	65 mA	60	A
2A-42		12 VDC	125 mA		60 mA	60	A
2A-43		15 VDC	100 mA		60 mA	62	A
2A-44		±12 VDC	±60 mA		60 mA	62	A
2A-45		±15 VDC	±50 mA		60 mA	62	A

Note: Nominal Input Voltage 12, 24, 28 or 48VDC

Specifications

Input Specifications:

Input Voltage Range.....10%

Input Filter.....Pi Type

Output Specifications:

Voltage Accuracy.....+/- 4.0 % max.

Ripple & Noise, 20 MHz BW..... 50 mV p-p max.

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

Short Circuit Protection.....Momentary

Line Regulation ¹ Single / Dual Output.....+/- 0.3 % max.

Load Regulation ² Single / Dual Output.....+/- 0.5 % max.

Efficiency.....50%

Isolation Capacitance.....30pF

Isolation Resistance.....100Mohm

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

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

Case Temperature.....95° 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

General Specifications :

Outline Information and Pin-out

PIN CONNECTION					
500VDC			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

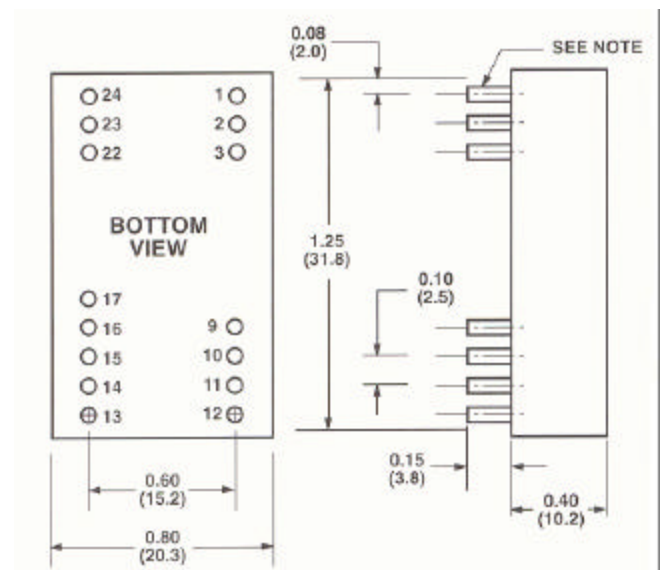
* NC---No connection with pin

* Go---Ground

Note:

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.