

5A Series

6W-24W Wide Input DC-DC Converters

Features

- 6W-24W Non-isolated Output
- 24-Pin DIP Package
- Regulated Outputs
- Up to 94% Efficiency
- Input LC Filter
- Low Ripple and Noise

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency	Case
				No Load	Full Load		
5A-05S33	4.7-6 VDC	3.3 VDC	2000 mA	15 mA	1535 mA	86	
5A-12S33	9-32 VDC	3.3 VDC	2000 mA	15 mA	647 mA	85	
5A-12S05	9-32 VDC	5 VDC	2000 mA	15 mA	947 mA	88	
5A-12S12	9-32 VDC	12 VDC	830 mA	15 mA	954 mA	87	A
5A-12S15	9-32 VDC	15 VDC	666 mA	15 mA	957 mA	87	
5A-24S12	16-32 VDC	12 VDC	1600 mA	15 mA	860 mA	93	
5A-24S15	19-32 VDC	15 VDC	1600 mA	15 mA	1053 mA	94	

Note: Nominal Input Voltage 5, 12, or 24VDC

Specifications

Input Specifications:

Input Voltage Range.....	5V.....	4.7-6V
	12V.....	9-32V
	24V.....	16-32V
	24V.....	19-32V

Input Filter.....LC Type

Output Specifications:

Voltage Accuracy.....+/- 2.0 % max.

Ripple & Noise, 20 MHz BW.....3.3V/5V..... 100 mV p-p max.
 12V / 15V.....1% p-p max.

Temperature Coefficient..... +/- 0.05 % /° C max.

Over current Protection.....120~150%

Line Regulation ¹ +/- 0.5 % max.

Load Regulation ² +/- 0.5 % max.

General Specifications :

Efficiency.....see table

Switching Frequency.....150 KHz, Typ.

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

Case Temperature.....100° C max.

Cooling.....Free air convection

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

Cooling.....Free air convection

Isolation Voltage(input / output).....Non-isolation

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

Standard Models(Material).....Black Coated Copper with Non-conducted base

Outline Information and Pin-out

PIN CONNECTION			
Pin	Function	Pin	Function
1	NP	24	NP
2	-V input	23	+ V input
3	-V input	22	+ V input
9	-V output	16	-V output
10	NC	15	NC
11	+V output	14	+ V output
12	NP	13	NP

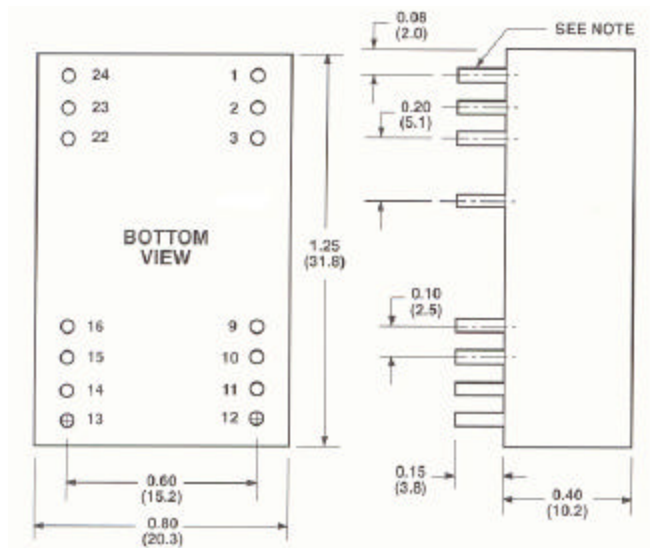
- NP---No Pin
- * NC---No connection with pin

All dimensions are in inches [mm]

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

Note:

1. Measured from high line to low line
2. Measured from full load to 10% load



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.