



**THE DATASHEET OF
AA01D-024L-120D**



1-2 Watts

AA01D



Total Power: 1-2 Watts
Input Voltages: 5V, 12V, or 24V
No. of Outputs: Single, Dual

Electrical Specs

Input

Input range	4.5 - 5.5 Vdc; 10.8 - 13.2 Vdc; 21.6 - 26.4 Vdc
Input reverse voltage protection	Fuse recommended
Input filter	Capacitor
Efficiency	50-70% typ

Output

Voltage tolerance	Output 1 and 2 - $\pm 3.0\%$
Line regulation	Output 1 and 2 - $\pm 1.0\%$
Load regulation	5V Output Models $\pm 1.0\%$
Noise/ripple	1% mV P-P (see note1)
Short circuit protection	10 Second Duration
Transient response	250 usec max (50% load change to within 1% VO Nom)
Switching frequency	25kHz typ
Temperature coefficient	$\pm 0.02\%/^{\circ}\text{C}$

Isolation

I/O isolation	500Vdc
Isolation resistance	1 x 10 ⁹ ohms

Special Features

- 1 Year warranty
- 1.25" x 0.34" x 0.57" Case size
- 500Vdc Isolation
- -25°C to +71°C operating temperature

Environmental

Operating ambient temperature:
-25°C to +71°C (full load, no derating)
 Storage temperature: -55°C to +105°C
 Humidity: 5% to 95% (non-condensing)
 Cooling method: Convection
 MTBF: >1,000,000 hours
 (MIL-HDBK-217F)

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AA01D

Ordering Information

Input Voltage	Output 1 Voltage	Output 2 Voltage	Maximum Power	Model Number
4.5-5.5Vdc	5V @ 0.200A		1W	AA01D-005L-050S
4.5-5.5Vdc	9V @ 0.200A		1.8W	AA01D-005L-090S
4.5-5.5Vdc	12V @ 0.125A		1.5W	AA01D-005L-120S
4.5-5.5Vdc	15V @ 0.100A		1.5W	AA01D-005L-150S
4.5-5.5Vdc	+12V @ 0.060A	-12V @ 0.060A	1.44W	AA01D-005L-120D
4.5-5.5Vdc	+15V @ 0.050A	-15V @ 0.050A	1.5W	AA01D-005L-150D
10.8-13.2Vdc	5V @ 0.200A		1W	AA01D-012L-050S
10.8-13.2Vdc	9V @ 0.200A		1.8W	AA01D-012L-090S
10.8-13.2Vdc	12V @ 0.125A		1.5W	AA01D-012L-120S
10.8-13.2Vdc	15V @ 0.100A		1.5W	AA01D-012L-150S
10.8-13.2Vdc	+12V @ 0.060A	-12V @ 0.060A	1.44W	AA01D-012L-120D
10.8-13.2Vdc	+15V @ 0.050A	-15V @ 0.050A	1.5W	AA01D-012L-150D
21.6-26.4Vdc	5V @ 0.200A		1W	AA01D-024L-050S
21.6-26.4Vdc	9V @ 0.200A		1.8W	AA01D-024L-090S
21.6-26.4Vdc	12V @ 0.125A		1.5W	AA01D-024L-120S
21.6-26.4Vdc	15V @ 0.100A		1.5W	AA01D-024L-150S
21.6-26.4Vdc	+12V @ 0.060A	-12V @ 0.060A	1.44W	AA01D-024L-120D
21.6-26.4Vdc	+15V @ 0.050A	-15V @ 0.050A	1.5W	AA01D-024L-150D

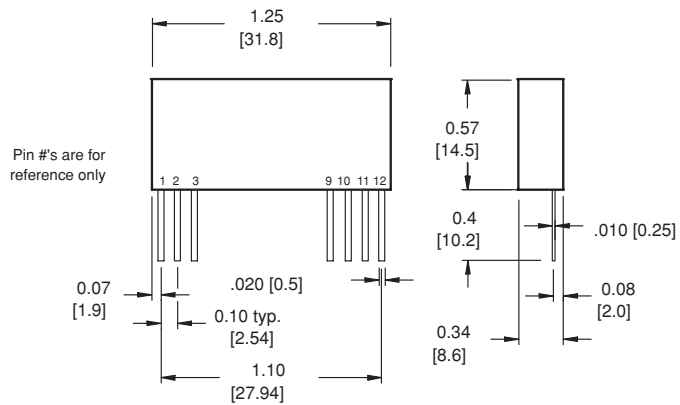
Pin Assignments

Single Output

- 1. +Vin
- 2. N/C
- 3. N/C
- 9. N/C
- 10. -Vout
- 11. +Vout
- 12. -Vin

Dual Output

- 1. +Vin
- 2. -Vout
- 3. Com
- 9. N/C
- 10. Com
- 11. +Vout
- 12. -Vin



Case Material: Plastic
 Weight: 0.30Z/8Grams

Notes:

- 20 MHz bandwidth. An external 0.1uf ceramic capacitor is recommended to be placed from +V out to -V out.
- All specifications are typical at nominal line, full load, and 25 ° C unless otherwise noted.
- All specifications subject to change without notice. Mechanical drawings are for reference only.
- Warranty: 1 yr

Astec Conventional Power

Looking for pricing, stock, or lifecycle information?

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