

AA01D

1-2 Watts

AA01D Series

Total Power	1-2 Watts
Input Voltages	5V, 12V or 24V
# of Outputs	Single, Dual



SPECIAL FEATURES

- 5 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)

ELECTRICAL SPECIFICATIONS

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% $V_{O\text{ Nom}}$)

Switching frequency 25kHz typ

Temperature coefficient $\pm 0.02\%/^{\circ}\text{C}$

Isolation

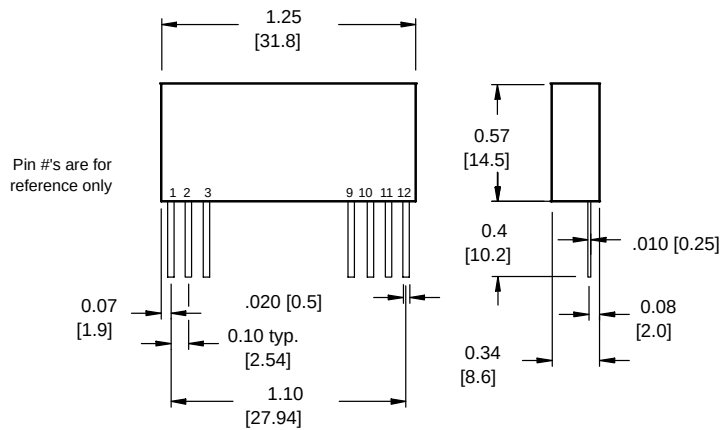
I/O isolation 500Vdc

Isolation resistance 1×10^9 ohms

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

DRAWINGS



Case Material: Plastic
Weight: 0.3Oz/8Grms

PIN ASSIGNMENTS

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

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.

Find price and stock options from leading distributors for AA01D-012L-120D on Findchips.com:

<https://findchips.com/search/AA01D-012L-120D>

Find CAD models and details for this part:

<https://findchips.com/detail/aa01d-012l-120d/ASTEC-Semiconductor>