

AA05A

5 Watts

AA05A Series

Total Power	5 Watts
Input Voltages	5V or 12V or 24V or 48V
# of Outputs	Single, Dual



SPECIAL FEATURES

- Isolated output
- Six-sided shielding
- Wide 4:1 input range
- Small size 2.0" x 1.0" x 0.40"
- 5 year warranty

ENVIRONMENTAL

Operating ambient temperature range:
-25°C to +71°C (no derating)

Storage Temperature Ambient: -40°C to +105°C

Cooling Method: Convection

MTBF: 425,000 hours (MIL-HDBK-217)

SAFETY

UL UL1950 Recognized

ELECTRICAL SPECIFICATIONS

Input

Input range 4.5 to 5.25VDC
9 to 36 VDC
20 to 72 VDC

Efficiency 60 - 75% typ

Input ripple current <100 mA p-p

Output

Voltage tolerance $\pm 1\%$ (factory set-point)

Line regulation $\pm 0.25\%$

Load regulation $\pm 0.5\%$

Noise/ripple 100mV p-p, under specified conditions

Output voltage protection zener clamp

Short circuit protection current limit

Switching frequency 100KHz (typ)

Isolation

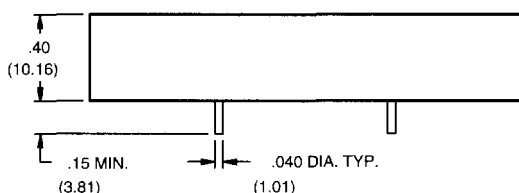
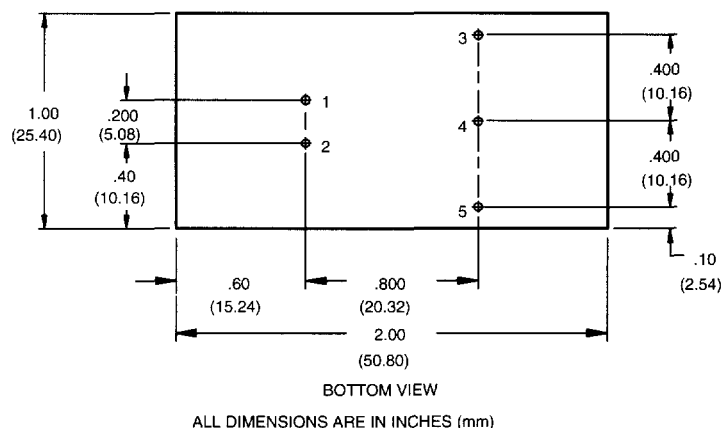
I/O isolation 500 VDC

ORDERING INFORMATION

Input Voltage	Output 1 Voltage	Output 2 Voltage	Maximum Power	Model Number
4.5-5.25V	5V @ 1.00A		5.0W	AA05A-005L-050S
4.5-5.25V	12V @ 0.420A		5.0W	AA05A-005L-120S
4.5-5.25V	15V @ 0.330A		5.0W	AA05A-005L-150S
4.5-5.25V	12V @ 0.210A	-12V @ 0.210A	5.0W	AA05A-005L-120D
4.5-5.25V	15V @ 0.167A	-15V @ 0.167A	5.0W	AA05A-005L-150D
9-36V	5V @ 1.00A		5.0W	AA05A-024L-050S
9-36V	12V @ 0.420A		5.0W	AA05A-024L-120S
9-36V	15V @ 0.330A		5.0W	AA05A-024L-150S
9-36V	12V @ 0.210A	-12V @ 0.210A	5.0W	AA05A-024L-120D
9-36V	15V @ 0.167A	-15V @ 0.167A	5.0W	AA05A-024L-150D
20-72V	5V @ 1.00A		5.0W	AA05A-048L-050S
20-72V	12V @ 0.420A		5.0W	AA05A-048L-120S
20-72V	15V @ 0.330A		5.0W	AA05A-048L-150S
20-72V	12V @ 0.210A	-12V @ 0.210A	5.0W	AA05A-048L-120D
20-72V	15V @ 0.167A	-15V @ 0.167A	5.0W	AA05A-048L-150D

Please contact Astec for information on other output voltages, power ranges and configurations.

DRAWINGS



PIN ASSIGNMENTS

Single Output

1. +Vin
2. -Vin
3. +Vout
4. No pin
5. -Vout

Dual Output

1. +Vin
2. -Vin
3. +Vout
4. COM (O/P Common)
5. -Vout

NOTES

1. All specifications are typical at nominal input and full load unless otherwise noted.
2. Specifications subject to change without notice.
3. Mechanical drawings for reference only.
4. 3.3μF external capacitor required across +Vout and -Vout.