

AA15B

15 WATTS

AA15B Series

Total Power	15 Watts
Input Voltages	24V or 48V
# of Outputs	Single, Dual



SPECIAL FEATURES

- UL 1950
- Isolated output
- Surface mount internal construction
- Six-sided shielding
- Wide 4:1 input range
- Small size 2.0" x 1.6" x 0.40"

ENVIRONMENTAL

Operating ambient temperature range:
-25°C to +60°C derating to zero power
@ 105°C

Baseplate: 105°C max

Storage Temperature: -40°C to +105°C

Humidity (non condensing): 5% to 95%

EMI/RFI: Six-Sided Continuous Shield
For input filter recommendations to meet FCC,
VDE, EIC specs, consult factory.

MTBF: 384,000 hours (MIL HDBK-217)

ELECTRICAL SPECIFICATIONS

Input

Input Range 20 to 72 VDC

Input Capacitance 2.5 mf typical

Efficiency 80 - 85% typical

Output

Voltage Tolerance ±1% max (factory set-point)

Line Regulation 0.5%

Load Regulation 2% (25% L to FL)

Noise/Ripple 50mV pk-pk; bandwidth 20MHz

Short Circuit Protection power cycling

Transient Response 500 msec 50% Step Load Change

Switching Frequency 110 kHz typical

Trim Range +10%, -4% max

Temperature Coefficient + .02%/°C max

Isolation

I/O Isolation 500VDC

SAFETY

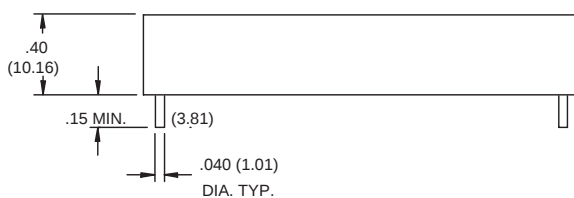
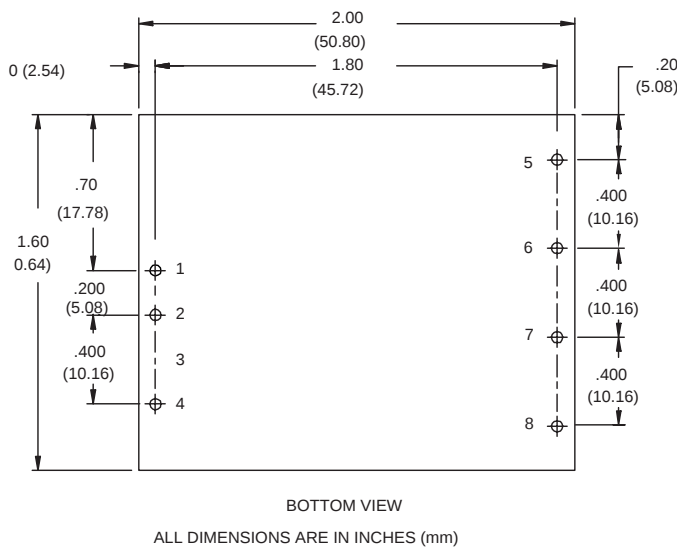
UL UL 1950 File # E169640
Recognized

ORDERING INFORMATION

Input Voltage	Output 1 Voltage	Output 2 Voltage	Maximum Power	Model Number
20-72V	5V @ 3A		15W	AA15B-048L-050S
20-72V	12V @ 1.250A		15W	AA15B-048L-120S
20-72V	15V @ 1A		15W	AA15B-048L-150S
20-72V	12V @ 0.625A	-12V @ 0.625A	15W	AA15B-048L-120D
20-72V	15V @ 0.500A	-15V @ 0.500A	15W	AA15B-048L-150D

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

DIMENSIONS

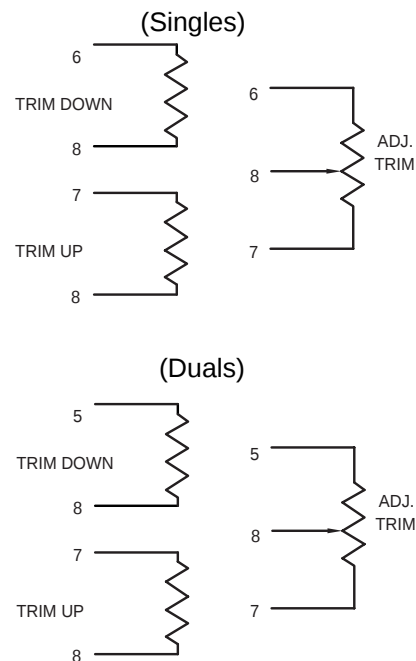


Note: Pins 0.040 in Dia x 0.15 in min

NOTES

1. An external 4.7 mf ceramic capacitor (Marcon TDC series) is recommended to be placed from the +V out to the -V out.
2. All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
3. Specifications subject to change without notice.
4. Mechanical drawings for reference only.
5. Requires 2.2mf 100V film capacitor (ITW/Paktron part # 225K100RA4 or equiv.) on input.

TRIM METHOD



PIN ASSIGNMENTS

Single Output

1. +Vin
2. -Vin
3. No pin
4. Control (Enable)
5. No pin
6. +V out
7. -V out
8. Trim

Dual Output

1. +Vin
2. -Vin
3. No pin
4. Control (Enable)
5. +V out
6. COMM out
7. -V out
8. Trim