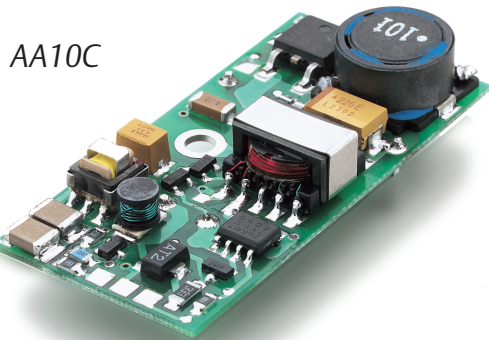


10/15 Watts

AA10C/AA15C

Total Power: 10/15 Watts
 Input Voltages: 48V
 No. of Outputs: Single



AA10C



AA15C

Special Features

- 10/15 W, Single Output
- Unencapsulated package
- 1.0" x 2.0" x 0.38 case
- Unencapsulated package
- Trim and enable functions

Electrical Specs

Input

| | |
|------------------------------|------------------|
| Input range | 36 to 75VDC |
| Input capacitance | 1.4 μ F typ |
| No load input power | 750mW max |
| Input reflected ripple (P-P) | 10mA max |
| Efficiency | 83% typical (5V) |

Output

| | |
|--------------------------|--|
| Voltage tolerance | $\pm 1.0\%$ |
| Line regulation | $\pm 0.1\%$ max |
| Load regulation | $\pm 0.2\%$ max |
| Noise/ripple | 100mV P-P (see note 1 & 2) |
| Short circuit protection | Continuous Power Cycle |
| Overvoltage protection | Active Disable (125% of nom) |
| Transient response | 500 μ S max (25% step load change to within 1%Vo) |
| Temperature Coefficient | $\pm 0.02/^\circ\text{C}$ |
| Switching frequency | 450kHz |

Environmental

Operating ambient temperature range:
 -40°C to 60°C (full load, no derating)
 Baseplate: N/A
 Storage temperature: -55°C to +125°C
 Humidity: 5% to 95% (non-condensing)
 MTBF: 1.0 Mil hours.

Safety

| | |
|------------|-------------------------|
| UL | UL1950 Recognition |
| CSA | CSA22.2-950 Recognition |
| TUV | EN60950 Recognition |

Isolation

| | |
|-----------------------|----------------------------|
| I/O isolation | 1500 VDC |
| Isolation resistance | 1 x 10 ⁹ (Ohms) |
| Isolation capacitance | 220pF |

AMERICAS

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 Tower1, Metroplaza
 223, Hing Fong Road
 Fwai Fong, New Territories
 Hong Kong
 Telephone: 852-2437-9662
 Facsimile: 852-2402-4426



AA10C / AA15C

Ordering Information

| Input Voltage | Output Voltage | Efficiency | Model Number |
|---------------|----------------|------------|-----------------|
| 36-75V | 5.0V @ 2.0A | 84% | AA10C-048L-050S |
| 36-75V | 3.3V @ 3.0A | 80% | AA15C-048L-033S |
| 36-75V | 5.0V @ 3.0A | 84% | AA15C-048L-050S |
| 36-75V | 12V @ 1.3A | 88% | AA15C-048L-120S |

NOTES:

Enable Function

"1" = negative logic enable (std, without "1 or 4" = no enable)

"4" = positive logic enable (std, without "1 or 4" = no enable)

Trim Feature

"9" = Trim option

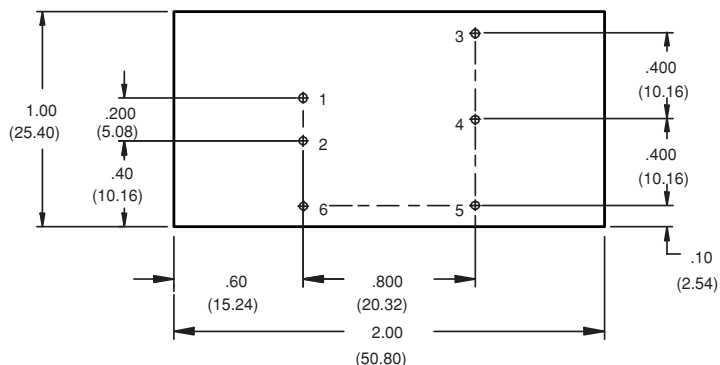
Pin Assignments

Single Output

1. +Vin
2. -Vin
3. Output 1
4. Trim (-9 option)
5. Comm
6. Enable (-1, -4 option)

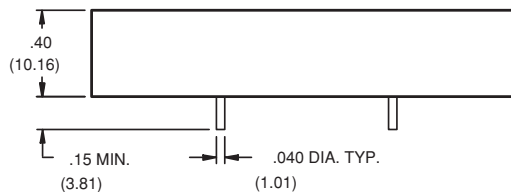
Notes:

1. 20 MHz bandwidth. An external 0.1 uF ceramic capacitor is recommended to be placed from +V out to comm.
2. Meets EN55022 Class A (-150S/D require 2.2uF input capacitor). Consult factory for filter recommendations to meet FCC class B, VDE or EIC specifications.
3. All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
4. All specifications subject to change without notice.
5. Mechanical drawings are for reference only.
6. Calculated per MIL HDBK 217F, Ground benign at 25°C, full load. BELLCORE calculated per TR-NWT-000332 method 1 parts count, Case 1.
7. Warranty: 1 yr



BOTTOM VIEW

ALL DIMENSIONS ARE IN INCHES (mm)



Case Material: N/A
 Weight: 1.4 oz/40 grams

Astec Industry Standard