

# 20 Watts

## AA20C

Total Power: 20 Watts  
 Input Voltages: 48V  
 No. of Outputs: Single



### Electrical Specs

#### Input

|                     |                             |
|---------------------|-----------------------------|
| Input range         | 36 to 75 VDC                |
| Input capacitance   | 1.6 $\mu$ F typ (48 models) |
| No load input power | 150mW max                   |
| Efficiency          | 84% typical (5V)            |

#### Output

|                          |  |
|--------------------------|--|
| Voltage tolerance        | $\pm 1.0\%$  |
| Overall regulation       | $\pm 2\%$ max  |
| Noise/ripple             | 1% (mV P-P)  |
| Short circuit protection | Continuous Power Cycle                               |
| Overvoltage protection   | Zener Clamp (125% of nom)                            |
| Transient response       | 1 msec typical (50% step load change to within 1%Vo) |

Temperature Coefficient  $\pm 0.02$  °C

Switching frequency 400kHz

#### Isolation

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

### Special Features

- 20 W, Single output
- 2:1 Input range
- Unencapsulated package
- 1.6" x 2.0" x 0.38 case
- Replaces AA20B series
- Industry standard package

### Environmental

Operating base temperature range:

-40°C to +105°C (full load, no derating)

Storage temperature: -55°C to +125°C

Humidity: 5% to 95% (non-condensing)

EMI RFI Shielding: Six sided (except 033-M1)

MTBF: 361,000 hours (MIL HDBK-217)

### Safety

UL UL1950 Recognition

CSA CSA22.2-950 Recognition

TUV EN60950 Recognition

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## Ordering Information

| Input Voltage | Output Voltage | Efficiency | Model Number       |
|---------------|----------------|------------|--------------------|
| 36-75 V       | 3.3V @ 6.0 A   | 79%        | AA20C-048L-0335-M1 |
| 36-75 V       | 5.0V @ 4.0 A   | 84%        | AA20C-048L-050S    |
| 36-75 V       | 12V @ 2.0 A    | 87%        | AA20C-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 feature (std, without "9" no Trim)

## Pin Assignments

### Single Output

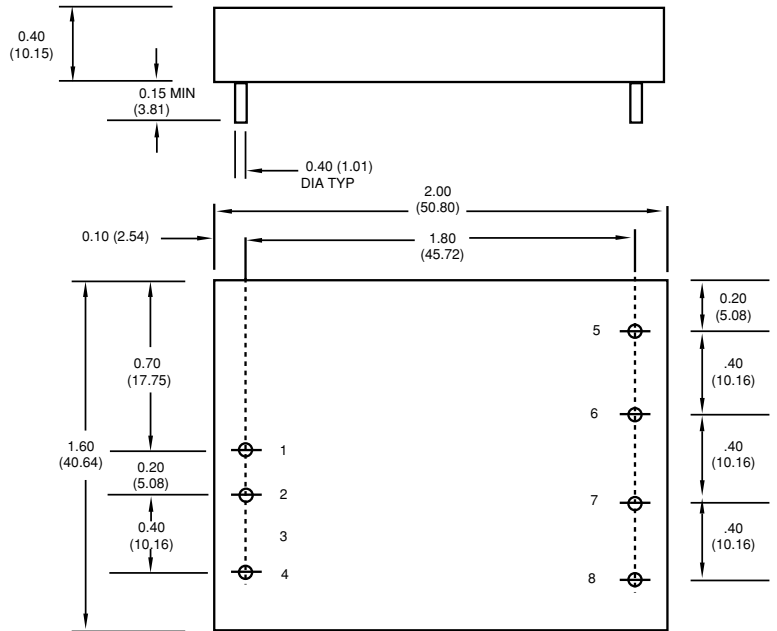
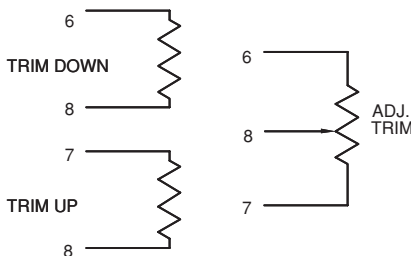
1. +Vin
2. -Vin
3. No pin
4. Enable
5. No pin
6. Output 1
7. COM
8. Trim

**Note:**

Pins 0.040 in Dia x 0.15 in min

Warranty: 1 yr

### SINGLE OUTPUT



BOTTOM VIEW

ALL DIMENSIONS ARE IN INCHES (mm)

Case Material: Metal base/cover

Weight: 2.0 oz./56 grams.