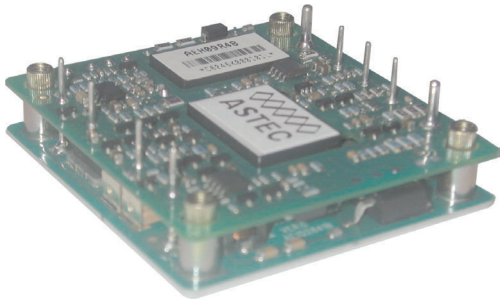
Astec Industry Standard

9 Amps

AEH09R48N

High Efficiency Half Brick

Total Power: 250W
Input Voltages: 48V
No. of Outputs: Single



Special Features

- High efficiency (91% Typical)
- Industry standard package 2.4" x 2.28" x 0.5"
- Remote sense compensation
- Basic insulation
- No load requirement

Environmental

Operating Ambient Temp: -40°C to +70°C

Overtemperature protection

MTBF: 2 million hours

Safety

UL, CSA , TUV

Electrical Specs

Input

Input Range	36 to 75 VDC
Input Surge	100V /100ms
Efficiency	91%@28V Typ

Output

Output Regulation (Line, load, temp)	<0.5%
Ripple	200mV pp max
Noise	240mV pp max
Remote sense	+/-10% of Vo
Transient Response	25% Ionom step from 50%Ionom. 3%Vo max, 500µs (di/dt =0.1A/µs)
Overvoltage Protection	32.2V to 39.2V (Latch)
Current Limit	9.9A to 12.6A (Auto-recovery)
Overtemperature Protection	Auto-recovery
Switching Frequency	250kHz

Control

Voltage Adjust	80 to 110%
Enable	Positive & negative enable options

Thermal Derating

The module can deliver up to full power at 50°C ambient, Vin: 48V, with 0.5m/sec forced air.

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ASTEC

Ordering Information

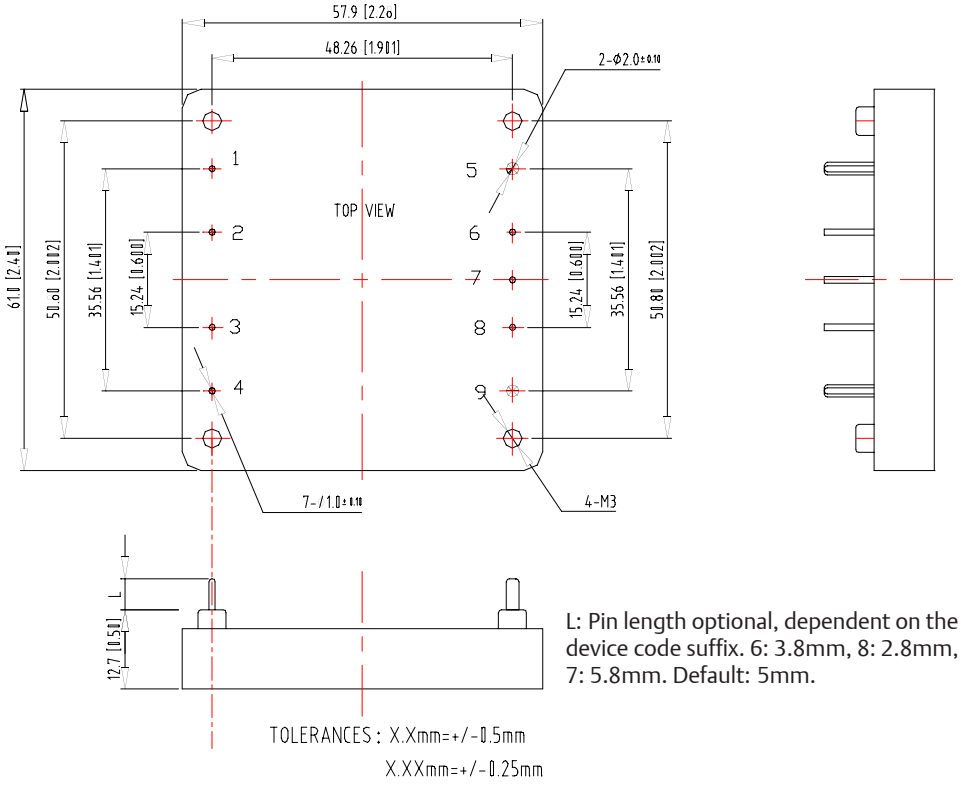
Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
48V	28V	9A	91% Typ	AEH09R48N

NOTES: "N" = Negative logic enable (without "N" = Positive logic enable)

Pin Assignments

Single Output

1. +Vin
2. CNT
3. Case
4. -Vin
5. +Vo
6. + Sense
7. Trim
8. - Sense
9. - Vo



L: Pin length optional, dependent on the device code suffix. 6: 3.8mm, 8: 2.8mm, 7: 5.8mm. Default: 5mm.

Notes:

1. All specifications subject to change without notice. Mechanical drawings are for reference only.
2. Technical Reference Notes should be consulted for detailed information when available.