ALQ/AEQ20B48

20 Amps

Total Power: 240 Watts
Input Voltage: 48V
# of Outputs: 1

Special Features

- Quarter brick industry standard outline
- Baseplate or openframe low profile construction
- Industry Standard features : Input UVLO with hysteresis, Enable, OVP, OCP, OTP, output Voltage Trim, Differential Remote Sense
- Fixed switching frequency for EMI predictability
- Prebias startup capable
- RoHS compliant
- Meets Basic Insulation
- EU directive 2002/95/EC compliant for RoHS

Safety

UL, cUL 60950
TUV EN60950

Electrical Specifications

Input	
Input range	36V to 75VDC
Input surge	100V / 100ms
Efficiency	93% (typical)
Output	
Line regulation	± 0.1% (typical)
Load regulation	± 0.1% (typical)
Noise/ripple[1]	60mV (typical)
Transient response	5% deviation (50% to 75% step load) <250µs setting time
Over current protection	130% Io (autorecovery)
Over voltage protection	120% Vo (autorecovery)
Over temperature protection	115°C average PCB temperature (autorecovery)
Switching frequency	150kHz
Isolation voltage	2250 Vdc
Control	
Enable on/off	Positive or negative logic options; TTL compatible

Environmental Specifications

Operating ambient air temperature range	-40°C to +85°C ambient
Storage temperature	-40°C to +125°C
MTBF	>1 million hours

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Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency[2]	Model Number
36 - 75V	12V	20A	93% Typ	ALQ20B48(N)-(6)L
36 - 75V	12V	20A	93% Typ	AEQ20B48(N)-(6)L

Options:

(N) : "N" = designates Negative Logic Enable (default is Positive Enable with no suffix "N" required)
(6) : "-6" = 3.7mm nominal pin length (default is 5mm nominal pin length with no suffix "-6" required)

Notes:

ALQ : = openframe constructioin
AEQ : = baseplate contruction
L : = RoHS Compliant (RoHS 6)

Pin Assignments

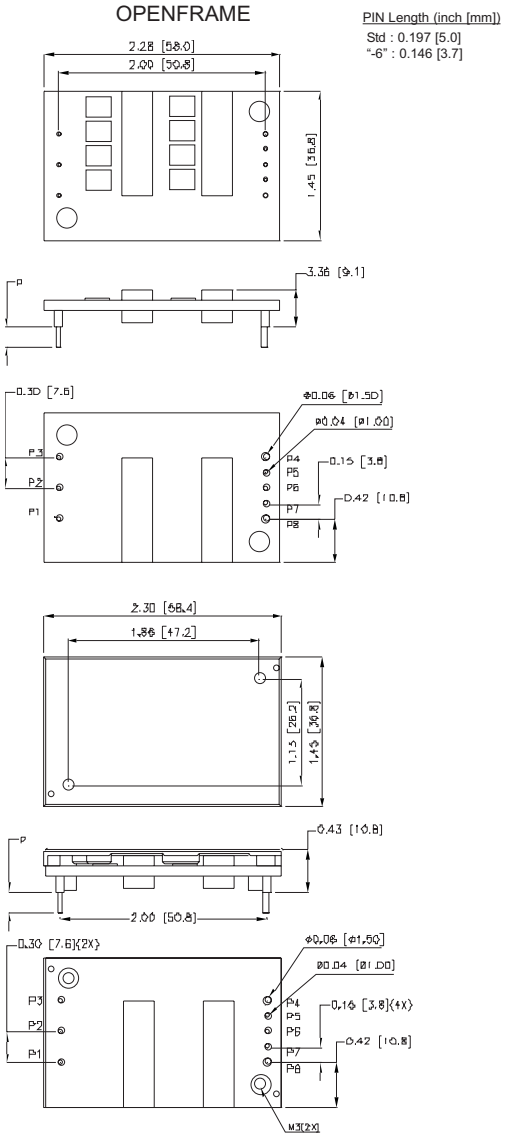
Single Output

1. +Vin
2. Enable on/off
3. -Vin
4. -Vout
5. - Sense
6. Trim
7. + Sense
8. +Vout

Notes:

1. Measured at 20 MHz bandwidth with external 10 uF tant. capacitor in parallel with 1 uF ceramic capacitor placed across +Vout and -Vout, T_A = 25ºC.
2. Efficiency measurements taken at nominal line V_{IN} = 48V input, Io = 100% load, T_A = 25ºC.
3. All specifications are considered typical values unless otherwise noted and are subjuect to change without notice.
4. 2 year warranty.
5 Consult factory for further product technical details.

Mechanical Drawing



* This is a Preliminary Data Sheet. Astec Power reserves the right to make changes to the information contained herein without notice and assumes no liability as a result of its use or application.

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