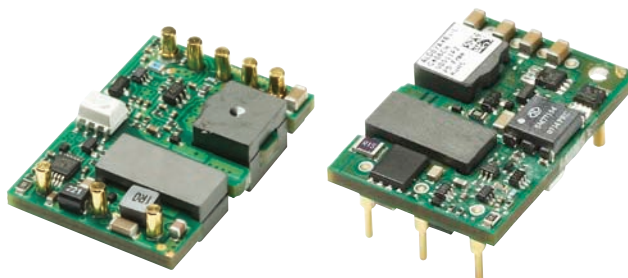


ALD15 Series

15 Amps

Total Power: 35 Watts
Input Voltage: 48V
of Outputs: Single



Special Features

- High Efficiency
- -40 °C to + 85 °C ambient air operation
- 1.30" x 0.90" x 0.35" TH or SMT package
- High capacitive load limit on start-up
- Industry standard feature sets: UVLO, OVP, OCP, OTP, on/off enable, remote sense, output trim
- Basic insulation
- Regulation to zero load
- Fixed frequency switching
- EU directive 2002/95/EC compliant for RoHS

Safety

- UL, cUL: 60950-1
- TUV: EN60950-1

Electrical Specifications

Input	
Input range:	36 to 75 Vdc
Input surge:	100 V / 100 ms
Efficiency:	90.5% @ 12 V
Output	
Line regulation:	$\pm 0.1\% V_O$ (typical)
Load regulation:	$\pm 0.1\% V_O$ (typical)
Noise/ripple ¹ :	40 mVp-p (typical)
Remote sense:	Up to 10% of V_O
Transient response:	3% V_O (typical) deviation 50% to 75% load change 80 μ s setting time (typical)
Overvoltage protection:	125% V_O typical (autorecovery)
Overcurrent protection:	115% I_O typical (autorecovery)
Overtemperature protection:	115 °C average PCB temperature (autorecovery)
Switching frequency:	Fixed frequency
Isolation voltage:	1500 Vdc minimum (2000 Vdc ALD10F48N)
Control	
Voltage adjust:	90 to 110% V_O
Enable:	TTL compatible

Environmental Specifications

Ambient air operating temperature range:	-40 °C to +85 °C
Storage temperature:	-40 °C to +125 °C
MTBF:	1 million hours

Input Voltage	Output Voltage	Output Current	Efficiency ²	Model Number
36 - 75 V	12.0 V	2.75 A	90.5%	ALD03B48(N)-(L)/(6L)/(SL)
36 - 75 V	5.0 V	7.00 A	91%	ALD07A48(N)-(L)/(6L)/(SL)
36 - 75 V	3.3 V	10.00 A	90%	ALD10F48(N)-(L)/(6L)/(SL)
36 - 75 V	2.5 V	11.00 A	89%	ALD11G48(N)-(L)/(6L)/(SL)
36 - 75 V	1.8 V	13.00 A	87%	ALD13Y48(N)-(L)/(6L)/(SL)
36 - 75 V	1.5 V	15.00 A	85%	ALD15M48(N)-(L)/(6L)/(SL)
36 - 75 V	1.2 V	15.00 A	84%	ALD15K48(N)-(L)/(6L)/(SL)

Notes:

Efficiency values taken at nominal input full load condition, 25 °C ambient temperature.

Options

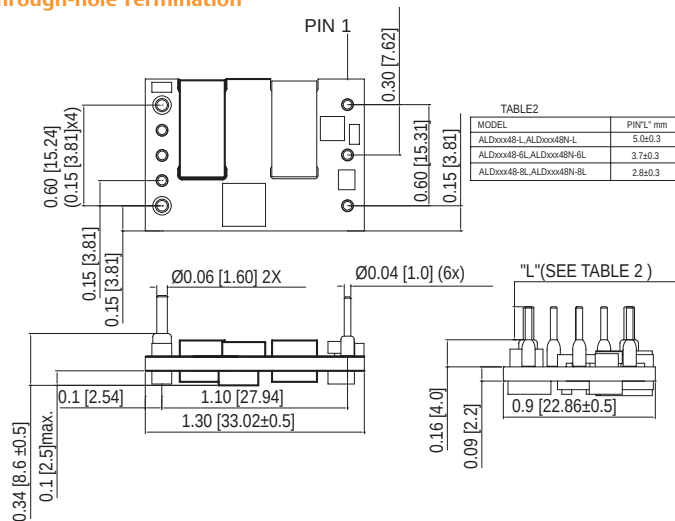
"N" = Designates Negative Logic Enable (default is Positive Enable with no suffix "N" required)

“L” = RoHS compliant

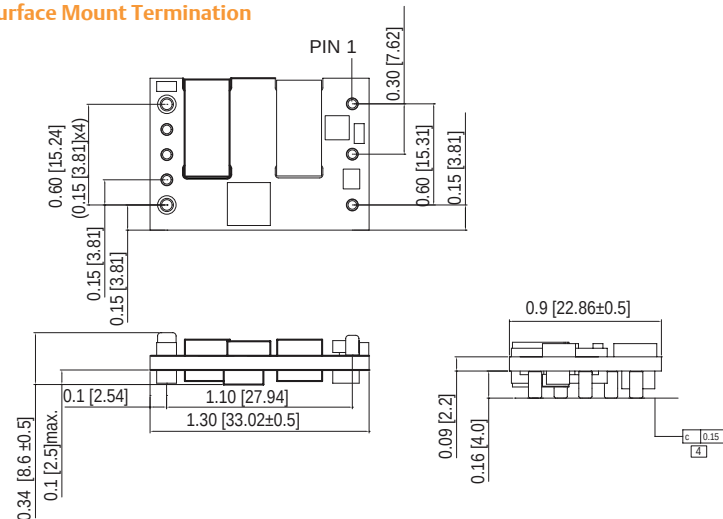
“-6L” = 3.7 mm nominal pin length (default is 5 mm nominal pin length with no suffix “-6” required), RoHS compliant

“-SL” = Surface Mount Termination (default is thru hole termination with no suffix “-S” required) RoHS compliant. STRL designates Taped and Reeled option for SMT

Through-hole Termination



Surface Mount Termination



Pin Assignments

Single Output

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

Notes:

1. 20 mHz bandwidth. External 10 μF tant. capacitor in parallel with 0.1 μF ceramic capacitor placed across +Vout and -Vout; 33 μF e-cap or equivalent placed across +Vin and -Vin.
2. Efficiency measurements taken at full load, nominal line and $T_A = 25^\circ\text{C}$
3. All specifications are typical at nominal line, full load and $T_A = 25^\circ\text{C}$ unless otherwise noted.
4. Mechanical drawings are for reference only. Dimensions are in inches [mm].
Mechanical tolerance ± 0.020 [± 0.50]
5. Technical Reference Notes should be consulted for detailed information when available.
6. All specifications subject to change without notice.
7. Warranty 2 years.
8. The through-hole terminated modules are intended for wave soldering process.

Mechanical Drawings

Recommended PAD/ Hole Pattern

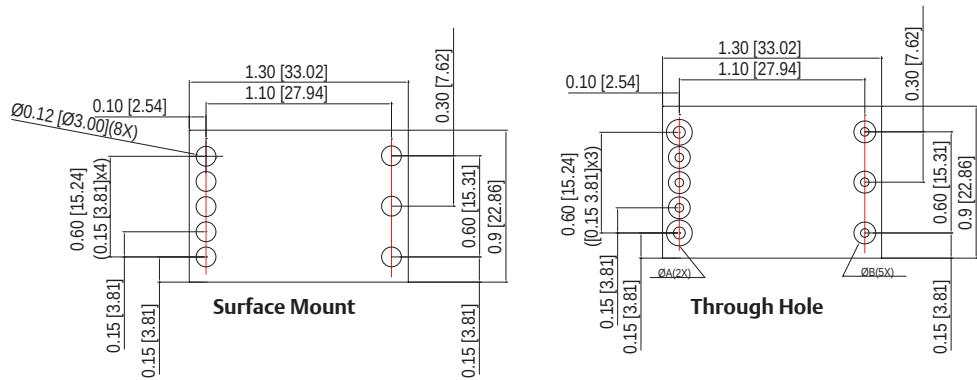
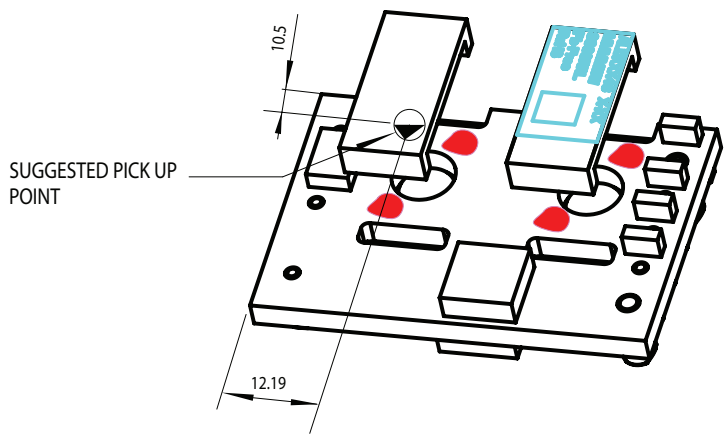


TABLE1

HOLE & PAD DIAMETER FOR CUSTOMER (RECOMMENDED)		
	HOLE DIAMETER (Ød)	PAD DIAMETER (ØD)
ØA	Ø1.9	Ø2.9
ØB	Ø1.3	Ø2.3

Recommended Pick-up Point



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Carlsbad, CA 92008
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Telephone: +1 760 930 4600
Facsimile: +1 760 930 0698

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United Kingdom
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Facsimile: +44 (0) 1384 843 355

Asia (HK)

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Kwun Tong, Kowloon
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Telephone: +852 2176 3333
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- Services
- Surge Protection

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<http://moschip.ru/get-element>

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