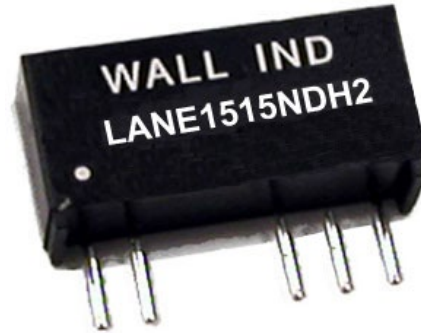


### FEATURES

- 7 Pin SIP Package
- 3000VDC Isolation
- Single and Dual Outputs
- Unregulated Output Types
- UL 94V-0 Package Material
- 3.3, 5, 12, 15, 24, and 48VDC Input Voltages Available



### DESCRIPTION

When your application demands low power, minimal board space, and a high level of input/output isolation is necessary, the LANEH2 miniature converters offer superior solutions at an economical price. Users have a multitude of options and operational ratings to choose from in custom-tailoring the converter to application demands. Populating a scant 0.179 square inches of board space, the LANEH2 provides two watts of power while maintaining specifications over the entire commercial operating temperature range.

### SPECIFICATIONS: LANEH2 Series

*All specifications apply @ ±25°C ambient unless otherwise noted*

#### INPUT SPECIFICATIONS

Input Voltage Range.....	3.3V nom. input.....	3.14 – 3.47 VDC
	5V nom. input.....	4.75 – 5.25VDC
	12V nom. input.....	11.4– 12.6VDC
	15V nom. Input.....	14.25 – 15.75VDC
	24V nom. input.....	22.8 – 25.2 VDC
	48V nom. input.....	45.6 – 50.4 VDC

#### OUTPUT SPECIFICATIONS

Output Current.....	see table
Output Voltage.....	see table
Output Voltage Accuracy.....	±5%
Line Regulation.....	1.2%/1% of Vin (typical)
Load Regulation (10% to 100% full load).....	10% max.
Ripple/Noise (20MHz BW).....	150mVp-p max.

#### PROTECTION

Short Circuit Protection.....	Short term
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#### GENERAL SPECIFICATIONS

Switching Frequency.....	100KHz typical
Efficiency.....	75% typical
Isolation Voltage (input to output).....	3000VDC (2sec/0.5mA)
Isolation Resistance.....	1000MΩ min. (500VDC)

#### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....	0°C ~ +70°C
“I” suffix.....	-40°C ~ +85°C
Humidity.....	95% non-condensing
Cooling.....	Free air convection

#### PHYSICAL SPECIFICATIONS

Weight.....	Approximately 2.1 grams
Case Material.....	non-conductive black plastic
Dimensions.....	19.50(L) x 7.10(W) x 10.00(H) mm

*Due to advances in technology, specifications subject to change without notice*



**OUTPUT VOLTAGE / CURRENT RATING CHART**

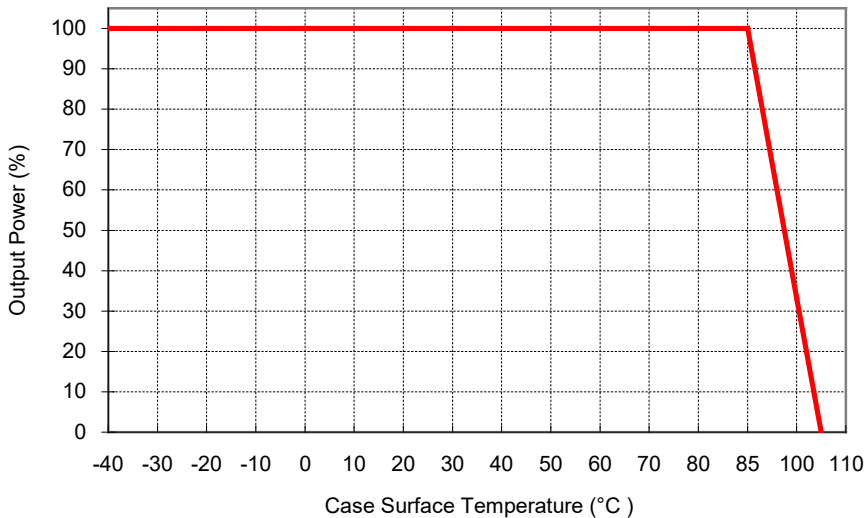
Model	Input Voltage Range	Output Voltage	Output Current
LANE3.305NH2	3.3 VDC (3.135 – 3.465 VDC)	5 VDC	400mA
LANE3.309NH2		9 VDC	222mA
LANE3.312NH2		12 VDC	167mA
LANE3.315NH2		15 VDC	133mA
LANE3.305NDH2		±5 VDC	±200mA
LANE3.309NDH2		±9 VDC	±111mA
LANE3.312NDH2		±12 VDC	±83mA
LANE3.315NDH2		±15 VDC	±67mA
LANE505NH2	5 VDC (4.75 – 5.25 VDC)	5 VDC	400mA
LANE509NH2		9 VDC	222mA
LANE512NH2		12 VDC	167mA
LANE515NH2		15 VDC	133mA
LANE505NDH2		±5 VDC	±200mA
LANE509NDH2		±9 VDC	±111mA
LANE512NDH2		±12 VDC	±83mA
LANE515NDH2		±15 VDC	±67mA
LANE1205NH2	12 VDC (11.4 – 12.6 VDC)	5 VDC	400mA
LANE1209NH2		9 VDC	222mA
LANE1212NH2		12 VDC	167mA
LANE1215NH2		15 VDC	133mA
LANE1205NDH2		±5 VDC	±200mA
LANE1209NDH2		±9 VDC	±111mA
LANE1212NDH2		±12 VDC	±83mA
LANE1215NDH2		±15 VDC	±67mA
LANE1505NH2	15 VDC (14.25 – 15.75 VDC)	5 VDC	400mA
LANE1509NH2		9 VDC	222mA
LANE1512NH2		12 VDC	167mA
LANE1515NH2		15 VDC	133mA
LANE1505NDH2		±5 VDC	±200mA
LANE1509NDH2		±9 VDC	±111mA
LANE1512NDH2		±12 VDC	±83mA
LANE1515NDH2		±15 VDC	±67mA
LANE2405NH2	24 VDC (22.8 – 25.2 VDC)	5 VDC	400mA
LANE2409NH2		9 VDC	222mA
LANE2412NH2		12 VDC	167mA
LANE2415NH2		15 VDC	133mA
LANE2405NDH2		±5 VDC	±200mA
LANE2409NDH2		±9 VDC	±111mA
LANE2412NDH2		±12 VDC	±83mA
LANE2415NDH2		±15 VDC	±67mA
LANE4805NH2	48 VDC (45.6 – 50.4 VDC)	5 VDC	400mA
LANE4809NH2		9 VDC	222mA
LANE4812NH2		12 VDC	167mA
LANE4815NH2		15 VDC	133mA
LANE4805NDH2		±5 VDC	±200mA
LANE4809NDH2		±9 VDC	±111mA
LANE4812NDH2		±12 VDC	±83mA
LANE4815NDH2		±15 VDC	±67mA

### NOTES

1. For industrial grade operating temperature of -40°C ~ +85°C add the suffix "I" to the part number. (Ex: LANE2405NH2I).
2. All tolerances for the mechanical drawing are ±0.25.
3. Dimensions of the mechanical drawing are shown in millimeters.  
*\*Due to advances in technology, specifications subject to change without notice.*

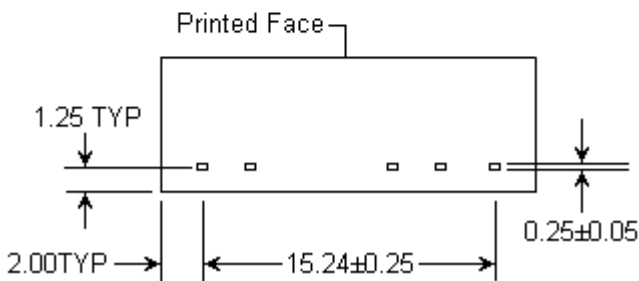
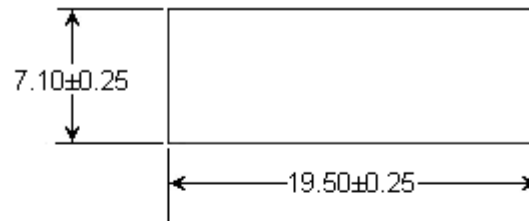
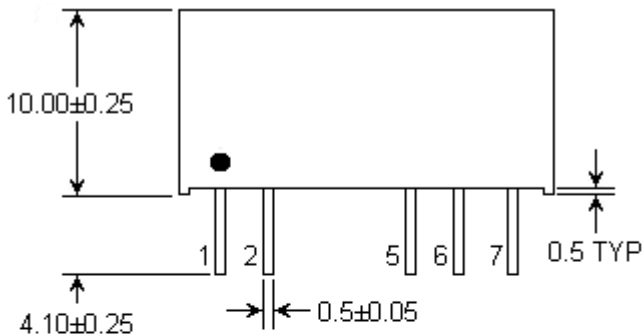
### DERATING CURVE

"I" Suffix Version



### MECHANICAL DRAWINGS

Unit: mm



PIN CONNECTION		
PIN	SINGLE OUTPUT	DUAL OUTPUT
1	+Vin	+Vin
2	-Vin	-Vin
5	-Vout	-Vout
6	No Pin	COM
7	+Vout	+Vout



Wall Industries, Inc.

Rev A

LANEH2 SERIES  
3KVDC I/O Isolation  
Single and Dual Output  
2 Watt DC/DC Converter

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## COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact **Wall Industries** for further information:

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