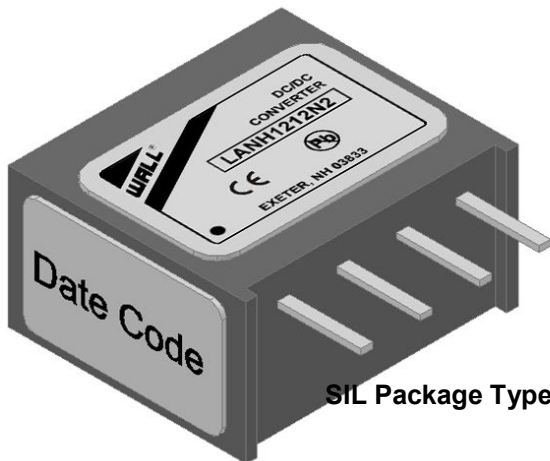


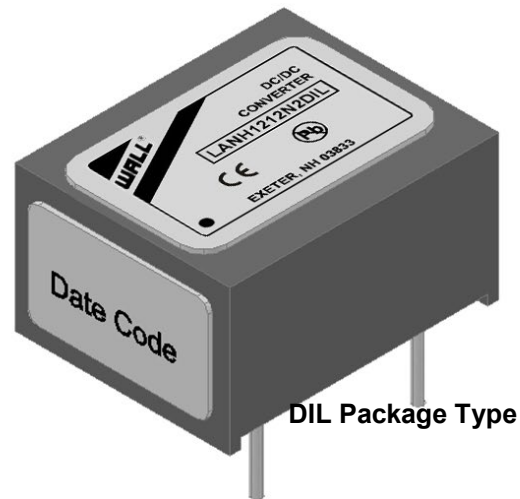
Wall Industries, Inc.

LANH 2 SERIES

5, 12, & 24 VDC Nominal Input Voltages
4-Pin SIL and 8-Pin DIL Package Types
3.3, 5, 9, 12, & 15 VDC Non-Regulated Single Outputs
2 Watt DC/DC Power Converters



SIL Package Type



DIL Package Type

FEATURES

- Non-Regulated Single Outputs
- 5, 12, and 24 VDC Nominal Input Voltages
- RoHS Compliant
- 2 Watts Output Power
- Input Filter with Internal Capacitor
- 1000VDC I/O Isolation
- Low Ripple & Noise
- 100% Burned-in
- -40°C to +85°C Operating Temperature Range
- 4-Pin SIL and 8-Pin DIL Package Types Available

DESCRIPTION

The LANH 2 series consists of 2 Watt DC/DC power converters with 5, 12, and 24 VDC nominal input voltages and 3.3, 5, 9, 12, and 15 VDC non-regulated single outputs. Some features include low ripple and noise, 1000VDC I/O isolation, and a -40°C to +85°C operating temperature range. This series is RoHS compliant and offers both 4-pin SIL and 8-Pin DIL package types.

TECHNICAL SPECIFICATIONS: LANH 2 SERIES

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Nom	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range	5VDC nominal input models	4.5	5	5.5	VDC
	12VDC nominal input models	10.8	12	13.2	
	24VDC nominal input models	21.6	24	26.4	
Input Surge Voltage	5VDC nominal input models	-0.7	5	7.5	VDC
	12VDC nominal input models	-0.7	12	15	
	24VDC nominal input models	-0.7	24	30	
Input Current		See Table			
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Accuracy				±5	%
Output Current		See Table			
Line Regulation	per 1.0% change in input change			1.3	%
Load Regulation		See Table			
Capacitive Load	2 Watt			330	µF
Output Power		0		2	W
Output Ripple	20MHz Bandwidth	See Table			
Temperature Coefficient			±0.01	±0.02	%/°C
PROTECTION					
Short Circuit Protection Duration		1 second max			
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Switching Frequency	Nominal input		80		KHz
Isolation Voltage (Input to Output)	Test duration 60 seconds / 0.5mA	1000			VDC
Isolation Resistance	500VDC	1000			MΩ
Isolation Capacitance	1KHz / 250mVrms		40		pF
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Full load	-40		+85	°C
Case Surface Temperature		-40		+95	°C
Storage Temperature		-55		+105	°C
Humidity				90	%
Cooling		Free air convection			
PHYSICAL SPECIFICATIONS					
Case Material		plastic			
Weight	SIL Package Type	0.05oz (1.4g)			
	DIL Package Type	0.06oz (1.8g)			
Dimensions (L x W x H)	SIL Package Type	0.46 x 0.24 x 0.40 inches (11.68 x 6.00 x 10.15 mm)			
	DIL Package Type	0.50 x 0.39 x 0.30 inches (12.70 x 10.00 x 7.70 mm)			

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

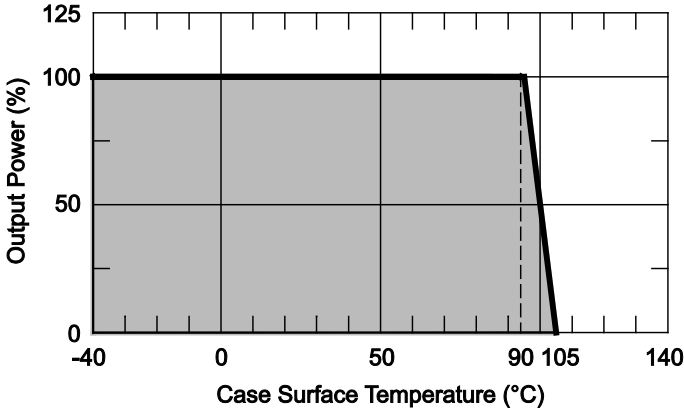
MODEL SELECTION TABLES

SIL Package Type Models									
Model Number	Input Voltage	Output Voltage	Output Current	Input Current		Load Regulation	Ripple & Noise	Output Power	Efficiency
				No Load	Full Load				
LANH533N2	5 VDC (4.5 – 5.5 VDC)	3.3 VDC	600mA	40mA	533mA	±12%	50mV	2W	75%
LANH505N2		5 VDC	400mA	40mA	533mA	±10%	60mV	2W	75%
LANH509N2		9 VDC	222mA	40mA	533mA	±8%	80mV	2W	75%
LANH512N2		12 VDC	167mA	35mA	520mA	±8%	100mV	2W	77%
LANH515N2		15 VDC	134mA	35mA	520mA	±8%	120mV	2W	77%
LANH1233N2	12 VDC (10.8 – 13.2 VDC)	3.3 VDC	600mA	18mA	222mA	±12%	50mV	2W	75%
LANH1205N2		5 VDC	400mA	18mA	222mA	±10%	60mV	2W	75%
LANH1209N2		9 VDC	222mA	16mA	217mA	±8%	80mV	2W	77%
LANH1212N2		12 VDC	167mA	16mA	217mA	±8%	100mV	2W	77%
LANH1215N2		15 VDC	134mA	16mA	217mA	±8%	120mV	2W	77%
LANH2433N2	24 VDC (21.6 – 26.4 VDC)	3.3 VDC	600mA	5mA	111mA	±12%	50mV	2W	75%
LANH2405N2		5 VDC	400mA	5mA	111mA	±10%	60mV	2W	75%
LANH2409N2		9 VDC	222mA	5mA	110mA	±8%	80mV	2W	76%
LANH2412N2		12 VDC	167mA	5mA	110mA	±8%	100mV	2W	76%
LANH2415N2		15 VDC	134mA	5mA	110mA	±8%	120mV	2W	76%

DIL Package Type Models									
Model Number	Input Voltage	Output Voltage	Output Current	Input Current		Load Regulation	Ripple & Noise	Output Power	Efficiency
				No Load	Full Load				
LANH505N2DIL	5 VDC (4.5 – 5.5 VDC)	5 VDC	400mA	40mA	533mA	±10%	60mV	2W	75%
LANH509N2DIL		9 VDC	222mA	40mA	533mA	±8%	80mV	2W	75%
LANH512N2DIL		12 VDC	167mA	35mA	520mA	±8%	100mV	2W	77%
LANH515N2DIL		15 VDC	134mA	35mA	520mA	±8%	120mV	2W	77%
LANH1205N2DIL	12 VDC (10.8 – 13.2 VDC)	5 VDC	400mA	22mA	222mA	±10%	60mV	2W	75%
LANH1209N2DIL		9 VDC	222mA	20mA	217mA	±8%	80mV	2W	77%
LANH1212N2DIL		12 VDC	167mA	20mA	217mA	±8%	100mV	2W	77%
LANH1215N2DIL		15 VDC	134mA	20mA	217mA	±8%	120mV	2W	77%
LANH2405N2DIL	24 VDC (21.6 – 26.4 VDC)	5 VDC	400mA	7mA	111mA	±10%	60mV	2W	75%
LANH2409N2DIL		9 VDC	222mA	6mA	110mA	±8%	80mV	2W	76%
LANH2412N2DIL		12 VDC	167mA	6mA	110mA	±8%	100mV	2W	76%
LANH2415N2DIL		15 VDC	134mA	6mA	110mA	±8%	120mV	2W	76%

DERATING

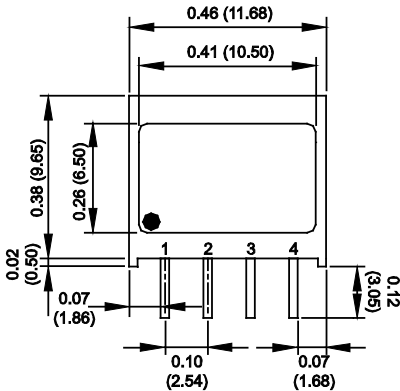
Power Derating Curve



MECHANICAL DRAWINGS

SIL Package Type (Standard)

Unit: inches (mm)

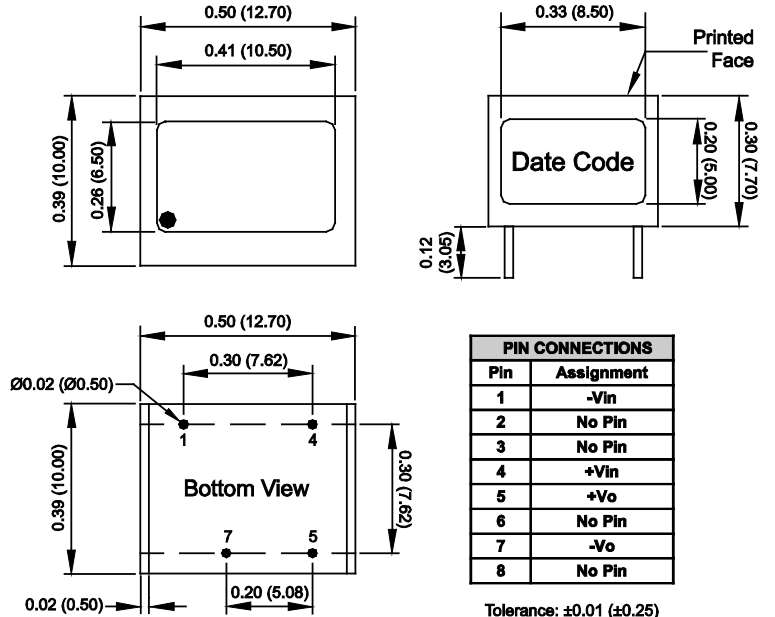


Pin	Assignment
1	-Vin
2	+Vin
3	-Vo
4	+Vo

Tolerance: ±0.01 (±0.25)

DIL Package Type ("DIL" Suffix)

Unit: inches (mm)



Pin	Assignment
1	-Vin
2	No Pin
3	No Pin
4	+Vin
5	+Vo
6	No Pin
7	-Vo
8	No Pin

Tolerance: ±0.01 (±0.25)

All dimensions are for reference only

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:

Phone: ☎ (603)778-2300
Toll Free: ☎ (888)597-9255
Fax: ☎ (603)778-9797
E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833

©2019 Wall Industries, Inc. Specifications subject to change without notice. Wall Industries is not responsible for typographical errors. The information contained herein is for informational purposes only. This information is provided by Wall Industries and we make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the information contained in this document for any purpose. All product and manufacturer names are trademarks or registered trademarks of their respective companies.