

Size: 0.77in x 0.24~0.28in x 0.39in
(19.5mm x 6~7.1mm x 10mm)

FEATURES

- 7Pin SIP Package
- Unregulated Output Types
- Two Package Sizes Available
- RoHS Compliant
- Internal SMD Construction
- No External Component Required
- High Efficiency
- Industry Standard Pinout
- Short Circuit Protection
- Free Air Convection

DESCRIPTION

The LANEH series of DC/DC power converters provides 1 Watt of output power in a 7 pin SIP package. This series consists of non-regulated single and dual output models with high efficiency and a -40°C to +85°C operating temperature range. All models in this series are RoHS compliant and have short circuit protection. This series has two package sizes available.

MODEL SELECTION TABLE

Single Output Models

Model Number	Input Voltage Range	Output Voltage	Output Current	Efficiency	Available Package Type	UL 60950-1 Certification ⁽²⁾
LANE3333NH	3.3VDC (3.14~3.47VDC)	3.3VDC	303mA	70%	1, 2	-
LANE3305NH		5VDC	200mA	70%	1, 2	
LANE3309NH		9VDC	112mA	75%	1, 2	
LANE3312NH		12VDC	84mA	78%	1, 2	
LANE3315NH		15VDC	67mA	80%	1, 2	
LANE3324NH		24VDC	42mA	82%	2	
LANE533NH	5VDC (4.75~5.25VDC)	3.3VDC	303mA	70%	1, 2	-
LANE505NH		5VDC	200mA	70%	1, 2	Yes
LANE509NH		9VDC	112mA	75%	1, 2	Yes
LANE512NH		12VDC	84mA	78%	1, 2	Yes
LANE515NH		15VDC	67mA	80%	1, 2	Yes
LANE524NH		24VDC	42mA	82%	2	-
LANE933NH	9VDC (8.55~9.45VDC)	3.3VDC	303mA	70%	1, 2	-
LANE905NH		5VDC	200mA	70%	1, 2	
LANE909NH		9VDC	112mA	75%	1, 2	
LANE912NH		12VDC	84mA	78%	1, 2	
LANE915NH		15VDC	67mA	80%	1, 2	
LANE924NH		24VDC	42mA	82%	2	
LANE1233NH	12VDC (11.4~12.6VDC)	3.3VDC	303mA	70%	1, 2	-
LANE1205NH		5VDC	200mA	70%	1, 2	Yes
LANE1209NH		9VDC	112mA	75%	1, 2	Yes
LANE1212NH		12VDC	84mA	78%	1, 2	Yes
LANE1215NH		15VDC	67mA	80%	1, 2	Yes
LANE1224NH		24VDC	42mA	82%	2	-
LANE1533NH	15VDC (14.25~15.75VDC)	3.3VDC	303mA	70%	1, 2	-
LANE1505NH		5VDC	200mA	70%	1, 2	Yes
LANE1509NH		9VDC	112mA	75%	1, 2	-
LANE1512NH		12VDC	84mA	78%	1, 2	-
LANE1515NH		15VDC	67mA	80%	1, 2	Yes
LANE1524NH		24VDC	42mA	82%	2	-
LANE2433NH	24VDC (22.8~25.2VDC)	3.3VDC	303mA	70%	2	-
LANE2405NH		5VDC	200mA	70%	2	
LANE2409NH		9VDC	112mA	75%	2	
LANE2412NH		12VDC	84mA	78%	2	
LANE2415NH		15VDC	67mA	80%	2	
LANE2424NH		24VDC	42mA	82%	2	
LANE4833NH	48VDC (45.6~50.4VDC)	3.3VDC	303mA	70%	2	-
LANE4805NH		5VDC	200mA	70%	2	
LANE4809NH		9VDC	112mA	75%	2	
LANE4812NH		12VDC	84mA	78%	2	
LANE4815NH		15VDC	67mA	80%	2	
LANE4824NH		24VDC	42mA	82%	2	

MODEL SELECTION TABLE

Dual Output Models

Model Number	Input Voltage Range	Output Voltage	Output Current	Efficiency	Available Package Type
LANE3333NDH	3.3VDC (3.14~3.47VDC)	±3.3VDC	±150mA	70%	1, 2
LANE3305NDH		±5VDC	±100mA	70%	1, 2
LANE3309NDH		±9VDC	±56mA	75%	1, 2
LANE3312NDH		±12VDC	±42mA	78%	1, 2
LANE3315NDH		±15VDC	±34mA	80%	1, 2
LANE3324NDH		±24VDC	±21mA	82%	2
LANE5333NDH	5VDC (4.75~5.25VDC)	±3.3VDC	±150mA	70%	1, 2
LANE505NDH		±5VDC	±100mA	70%	1, 2
LANE509NDH		±9VDC	±56mA	75%	1, 2
LANE512NDH		±12VDC	±42mA	78%	1, 2
LANE515NDH		±15VDC	±34mA	80%	1, 2
LANE524NDH		±24VDC	±21mA	82%	2
LANE9333NDH	9VDC (8.55~9.45VDC)	±3.3VDC	±150mA	70%	1, 2
LANE905NDH		±5VDC	±100mA	70%	1, 2
LANE909NDH		±9VDC	±56mA	75%	1, 2
LANE912NDH		±12VDC	±42mA	78%	1, 2
LANE915NDH		±15VDC	±34mA	80%	1, 2
LANE924NDH		±24VDC	±21mA	82%	2
LANE1233NDH	12VDC (11.4~12.6VDC)	±3.3VDC	±150mA	70%	1, 2
LANE1205NDH		±5VDC	±100mA	70%	1, 2
LANE1209NDH		±9VDC	±56mA	75%	1, 2
LANE1212NDH		±12VDC	±42mA	78%	1, 2
LANE1215NDH		±15VDC	±34mA	80%	1, 2
LANE1224NDH		±24VDC	±21mA	82%	2
LANE1533NDH	15VDC (14.25~15.75VDC)	±3.3VDC	±150mA	70%	1, 2
LANE1505NDH		±5VDC	±100mA	70%	1, 2
LANE1509NDH		±9VDC	±56mA	75%	1, 2
LANE1512NDH		±12VDC	±42mA	78%	1, 2
LANE1515NDH		±15VDC	±34mA	80%	1, 2
LANE1524NDH		±24VDC	±21mA	82%	2
LANE2433NDH	24VDC (22.8~25.2VDC)	±3.3VDC	±150mA	70%	2
LANE2405NDH		±5VDC	±100mA	70%	2
LANE2409NDH		±9VDC	±56mA	75%	2
LANE2412NDH		±12VDC	±42mA	78%	2
LANE2415NDH		±15VDC	±34mA	80%	2
LANE2424NDH		±24VDC	±21mA	82%	2
LANE4833NDH	48VDC (45.6~50.4VDC)	±3.3VDC	±150mA	70%	2
LANE4805NDH		±5VDC	±100mA	70%	2
LANE4809NDH		±9VDC	±56mA	75%	2
LANE4812NDH		±12VDC	±42mA	78%	2
LANE4815NDH		±15VDC	±34mA	80%	2
LANE4824NDH		±24VDC	±21mA	82%	2

SPECIFICATIONS

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	TEST CONDITIONS			Unit
		Min	Typ	Max	
INPUT SPECIFICATIONS					
Input Voltage Tolerance	Vo, Io Nom			±5	%
Input Filter			Capacitor		
OUTPUT SPECIFICATIONS					
Output Voltage			See Table		
Voltage Tolerance	100% Full Load			±5	%
Line Regulation	For 1% of Vin		1.2		%
Load Regulation	3V,5V (10% to 100% FL)			15	%
	9V, 12V, 15V, 24V (10% to 100% FL)			10	
Output Power			See Table		
Output Current			See Table		
Ripple & Noise	BW=DC to 20MHz			100	mVp-p
Transient Response Setting Time	50% Load Step Change		350		us

SPECIFICATIONS

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
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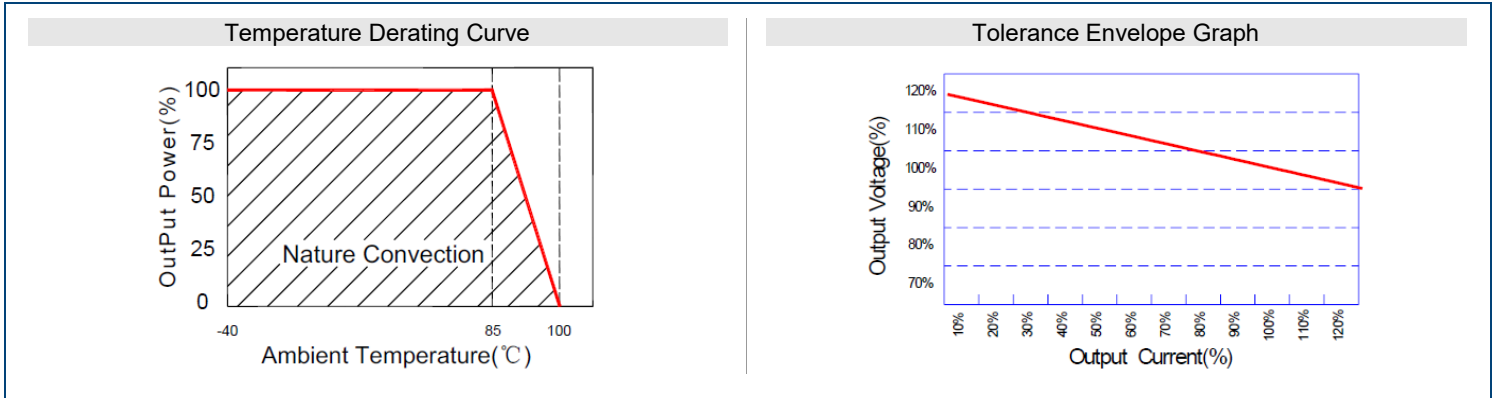
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
PROTECTION					
Short Circuit Protection	Short Term			1	Sec
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		-40		+85	°C
Humidity	Non-Condensing			95	%
Cooling		Free Air Convection			
MTBF	MIL-HDBK-217F @25°C	3,500,000			Hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Switching Frequency	Full Load, Nominal Input		100		KHz
Isolation Resistance	500VDC	1000			MΩ
PHYSICAL SPECIFICATIONS					
Weight	Package Type 1	0.074oz (2.1g)			
	Package Type 2	0.095oz (2.7g)			
Dimensions (L x W x H)	Package Type 1	0.77 x 0.24 x 0.39 inches (19.5 x 6.0 x 10.0 mm)			
	Package Type 2	0.77 x 0.28 x 0.39 inches (19.5 x 7.1 x 10.0 mm)			
Case Material		DAP			
SAFETY CHARACTERISTICS					
Safety Approvals		See Table			

NOTES

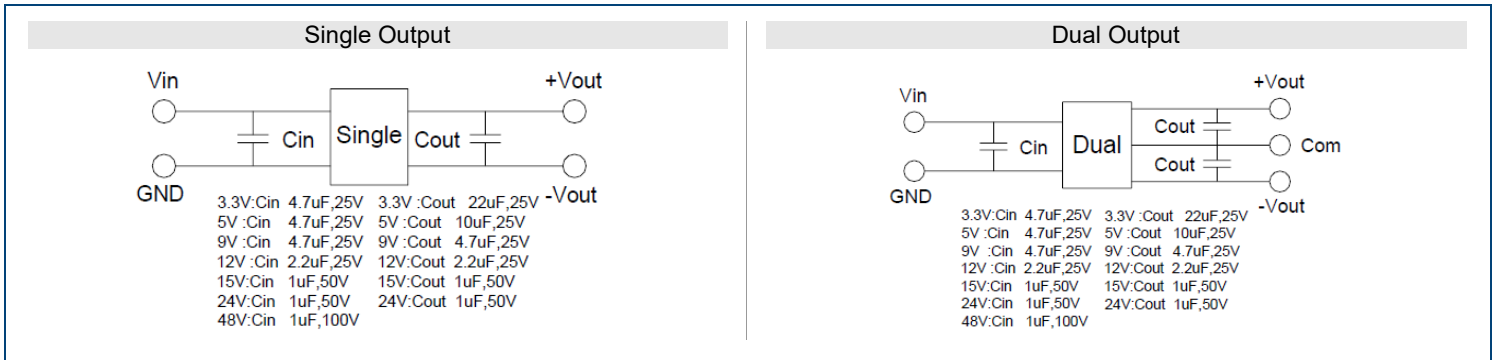
- 24VDC and 48VDC nominal input voltage and 24VDC Output models are only available in package 2 type.
- This product is Listed to applicable standards and requirements by UL.

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

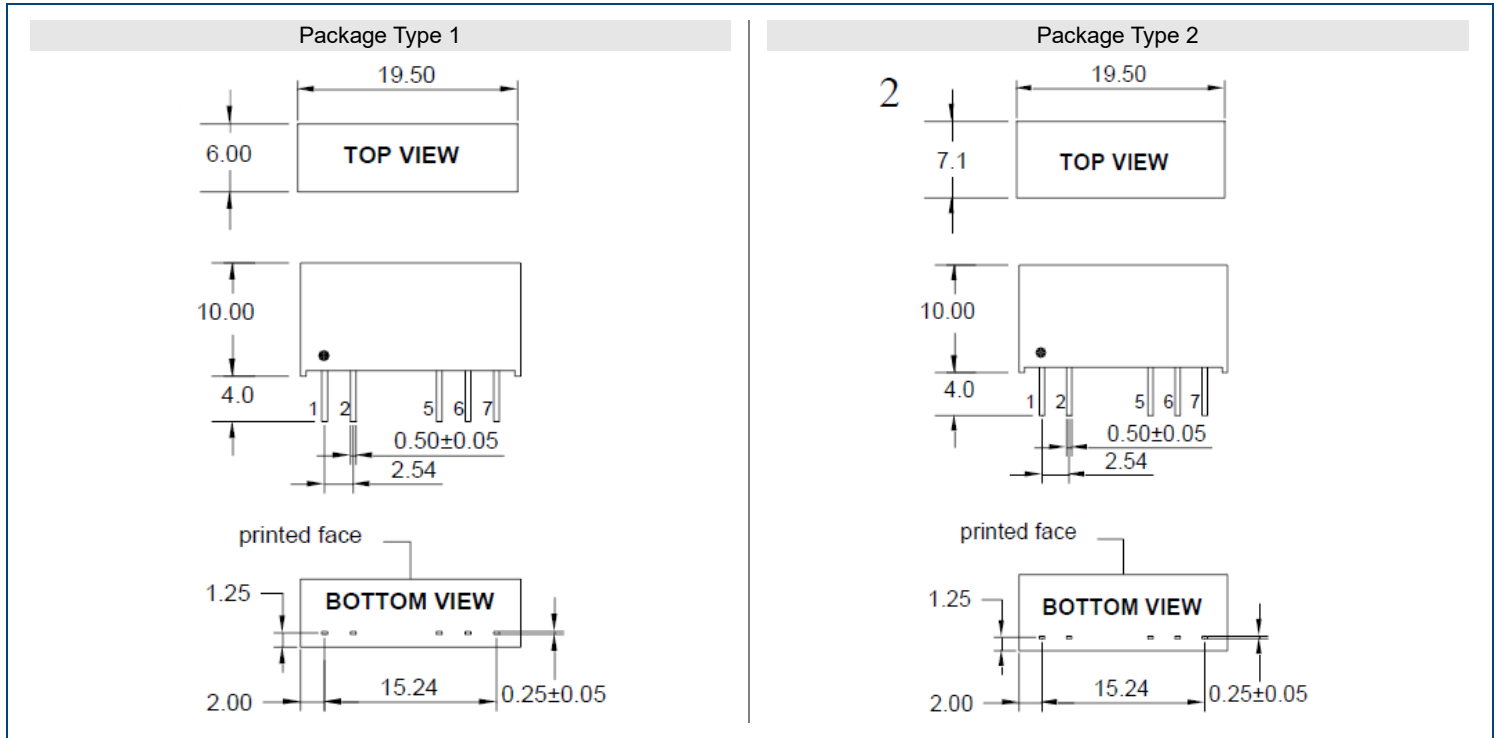
CHARACTERISTIC CURVES



RECOMMENDED TEST CIRCUIT



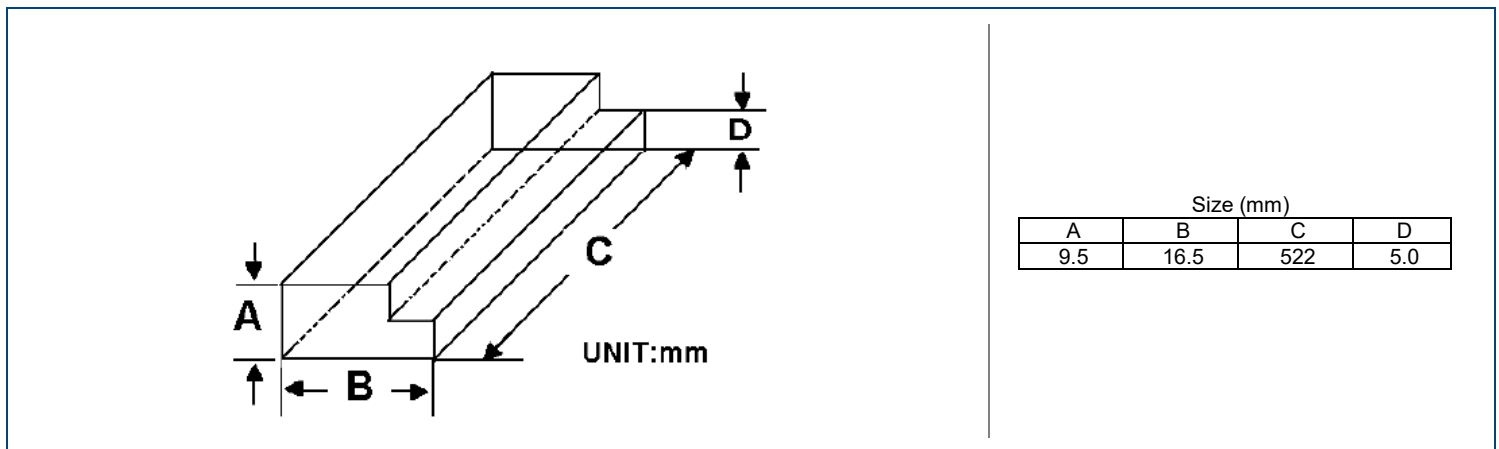
MECHANICAL DRAWINGS



Unit: mm Unless otherwise specified, all tolerances are ± 0.25

PIN	PIN Connection				
	1	2	5	6	7
Single	+Vin	-Vin	-Vout	No Pin	+Vout
Dual	+Vin	-Vin	-Vout	Com	+Vout

PACKAGING



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 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.

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