



Wall Industries, Inc.

LAN H Series  
SIP or DIP Package  
Single and Dual Output  
1 Watt DC/DC Converter

**FEATURES**

- 1000VDC I/O Isolation
- Miniature Package Size
- Single and Dual Outputs
- Up to 1 Watt Output Power
- Input 5, 12, 15, 24, and 48VDC
- Industrial Grade (“I” option): -40°C to +85°C



**SPECIFICATIONS: LAN H Series**

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

**INPUT SPECIFICATIONS**

Input Voltage Range ..... ±10%  
 Nominal Input Voltages..... 5, 12, 15, 24, and 48 VDC

**OUTPUT SPECIFICATIONS**

Output Voltage .....see table  
 Voltage Tolerance..... ±5%  
 Output Current .....see table  
 Output Power ..... 1 Watt max.  
 Line Regulation (10% to 100% load) .....±1.3% / % of Vin  
 Load Regulation (10% to 100% load)  
   5V output ..... 15% max  
   9V, 12V, and 15V outputs ..... 10% max  
 Ripple/Noise (20MHz BW) ..... 100mVp-p max.

**GENERAL SPECIFICATIONS**

Efficiency (at full load) ..... 70% typ.  
 Switching Frequency ..... 20KHz min.  
 Isolation Voltage (Input to Output) ..... 1000VDC  
 Isolation Resistance ..... 1000MΩ @ 500VDC

**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature ..... -25°C ~ +70°C  
 “I” suffix ..... -40°C ~ +85°C (see note 1)  
 Storage Temperature ..... -40°C ~ +105°C  
 Cooling ..... Free air convection

**PHYSICAL SPECIFICATIONS**

Dimensions  
 Single Outputs ..... 0.45(L) x 0.24(W) x 0.39(H) inches  
 Dual Outputs ..... 0.50(L) x 0.50(W) x 0.37(H) inches  
 Case Material ..... Non-Conductive black plastic

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



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OUTPUT VOLTAGE / CURRENT RATING CHART

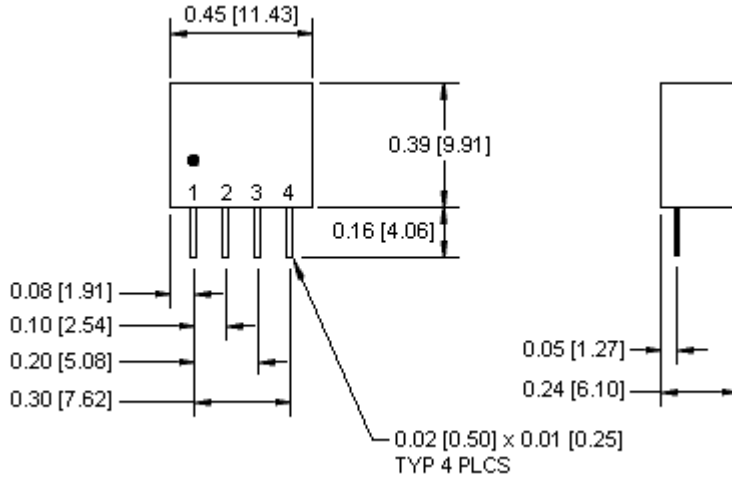
Model Number	Input Voltage	Output Voltage	Output Current	Efficiency (Typ.)	
LANH503N	5 VDC	3.3VDC	303mA	70%	
LANH505N		5 VDC	200mA	75%	
LANH509N		9 VDC	110mA	75%	
LANH512N		12 VDC	84mA	75%	
LANH515N		15 VDC	67mA	75%	
LANH505ND		±5 VDC	±100mA	75%	
LANH509ND		±9 VDC	±56mA	75%	
LANH512ND		±12 VDC	±42mA	75%	
LANH524ND		±24 VDC	±34mA	70%	
LANH1205N		12 VDC	5 VDC	200mA	75%
LANH1209N			9 VDC	110mA	75%
LANH1212N	12 VDC		84mA	75%	
LANH1215N	15 VDC		67mA	75%	
LANH1203ND	±3.3 VDC		±154mA	70%	
LANH1205ND	±5 VDC		±100mA	75%	
LANH1209ND	±9 VDC		±56mA	75%	
LANH1212ND	±12 VDC		±42mA	75%	
LANH1224ND	±24 VDC		±34mA	70%	
LANH1505N	15 VDC		5 VDC	200mA	75%
LANH1509N			9 VDC	110mA	75%
LANH1512N		12 VDC	84mA	75%	
LANH1515N		15 VDC	67mA	75%	
LANH1503ND		±3.3 VDC	±154mA	70%	
LANH1505ND		±5 VDC	±100mA	75%	
LANH1509ND		±9 VDC	±56mA	75%	
LANH1512ND		±12 VDC	±42mA	75%	
LANH1524ND		±24 VDC	±34mA	70%	
LANH2405N		24 VDC	5 VDC	200mA	75%
LANH2409N			9 VDC	110mA	75%
LANH2412N	12 VDC		84mA	75%	
LANH2415N	15 VDC		67mA	75%	
LANH2403ND	±3.3 VDC		±154mA	70%	
LANH2405ND	±5 VDC		±100mA	75%	
LANH2409ND	±9 VDC		±56mA	75%	
LANH2412ND	±12 VDC		±42mA	75%	
LANH2424ND	±24 VDC		±34mA	70%	
LANH4805N	48 VDC		5 VDC	200mA	75%
LANH4809N			9 VDC	110mA	75%
LANH4812N		12 VDC	84mA	75%	
LANH4815N		15 VDC	67mA	75%	
LANH4805ND		±5 VDC	±100mA	75%	
LANH4809ND		±9 VDC	±56mA	75%	
LANH4812ND		±12 VDC	±42mA	75%	
LANH4824ND		±24 VDC	±34mA	70%	

NOTES

1. For industrial grade operating temperature of -40°C to +85°C add suffix "I" to the part number (no derating to 85°C).
2. All case and pin-to-case dimensions reference only unless otherwise noted.
3. The LAN H Series is housed in an industry standard four pin SIP package for single output models and five pin DIP package for dual output models.

### MECHANICAL DRAWING

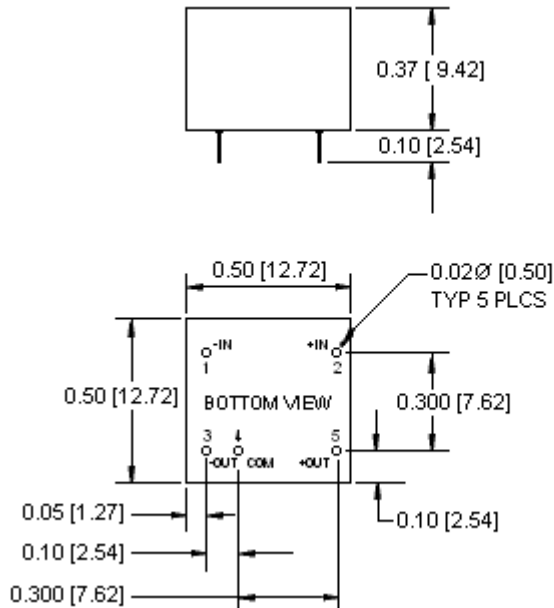
#### SINGLE OUTPUT



PIN CONNECTION	
PIN	SINGLE
1	-Vin
2	+Vin
3	-Vout
4	+Vout

Unit: inches (mm)

#### DUAL OUTPUT



PIN CONNECTION	
PIN	DUAL
1	-Vin
2	+Vin
3	-Vout
4	Common
5	+Vout

Unit: inches (mm)



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DERATING CURVE

