

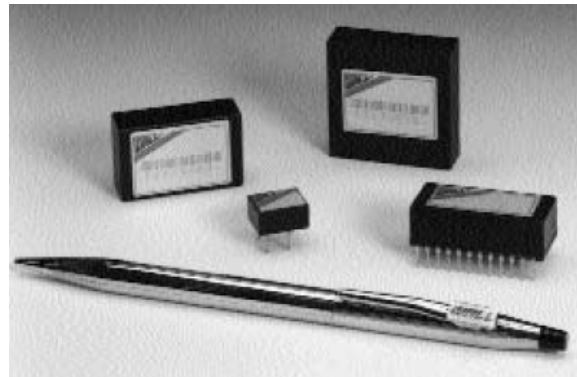


Wall Industries, Inc.

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 $+85^{\circ}\text{C}$



SPECIFICATIONS: LAN H Series

All specifications apply @ 25°C ambient unless otherwise noted

INPUT SPECIFICATIONS

Input Voltage Range $\pm 10\%$

Nominal Input Voltages 5, 12, 15, 24, and 48 VDC

OUTPUT SPECIFICATIONS

Output Voltage see table

Voltage Tolerance $\pm 5\%$

Output Current see table

Output Power 1 Watt max.

Line Regulation (10% to 100% load) $\pm 1.3\%$ / % of V_{in}

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 1000M Ω @ 500VDC

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature -25°C ~ $+70^{\circ}\text{C}$

"I" suffix -40°C ~ $+85^{\circ}\text{C}$ (see note 1)

Storage Temperature -40°C ~ $+105^{\circ}\text{C}$

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.

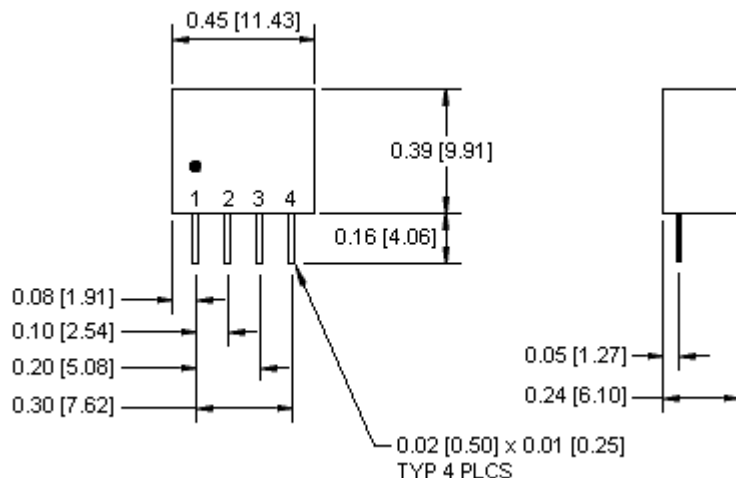


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MECHANICAL DRAWING

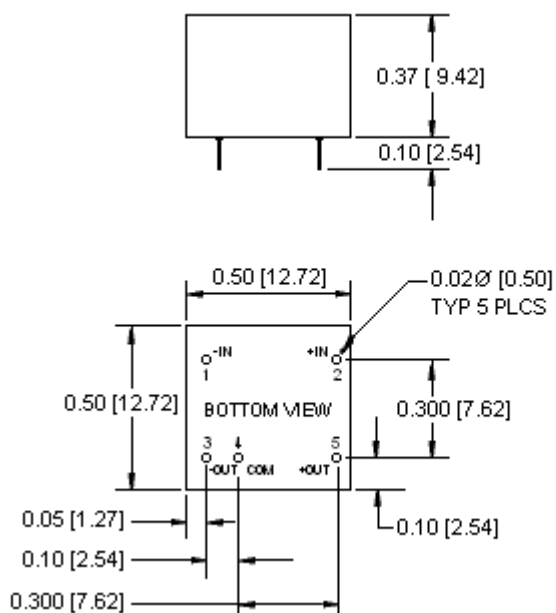
SINGLE OUTPUT



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

