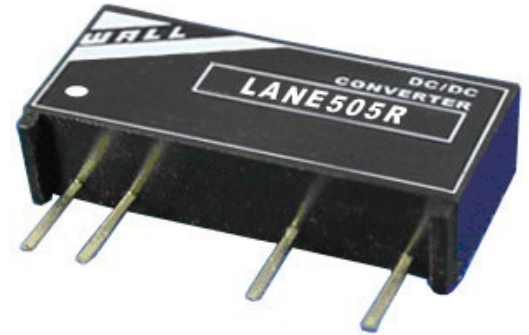


FEATURES

- Single Output
- 7 Pin SIP Package
- 1000VDC Isolation
- MTBF > 3,500,000 Hours
- Regulated Output Types
- UL 94V-0 Package Material
- Operating Temperature: -40°C to +85°C



DESCRIPTION

When your application demands low power, minimal board space, and a high level of input/output isolation is necessary, the LANE R series of miniature DC/DC converters offers 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. The LANE R series provides one watt of power while maintaining specifications over the entire commercial operating temperature range.

SPECIFICATIONS: LANE R Series

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

INPUT SPECIFICATIONS

Input Voltage Range..... 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

Input Voltage Tolerance ±5% max.

Input Filter..... capacitor

OUTPUT SPECIFICATIONS

Output Current..... see table

Output Voltage..... see table

Voltage Tolerance..... ±5% max.

Output Power..... 1 Watt

Line Regulation..... 0.5% max

Load Regulation..... 1.5% max.

Ripple/Noise (20MHz BW)

5V output models 100mVp-p

12~48V output models 1% of Vout

Transient Response Settling Time (50% load step)350µs

PROTECTION

Short Circuit ProtectionContinuous

GENERAL SPECIFICATIONS

Switching Frequency.....100kHz typical

Efficiency..... see table

Isolation Voltage (input to output) 1000VDC

Isolation Resistance..... 1000MΩ min. (500VDC)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-40°C ~ +85°C

Humidity (non-condensing).....95% max.

Cooling..... Free air convection

MTBF > 3,500,000 hours

PHYSICAL SPECIFICATIONS

Weight.....2.4 grams

Case Material non-conductive black plastic

Dimensions.....0.77(L) x 0.28(W) x 0.39(H) inches
19.5(L) x 7.1(W) x 10.0(H) mm

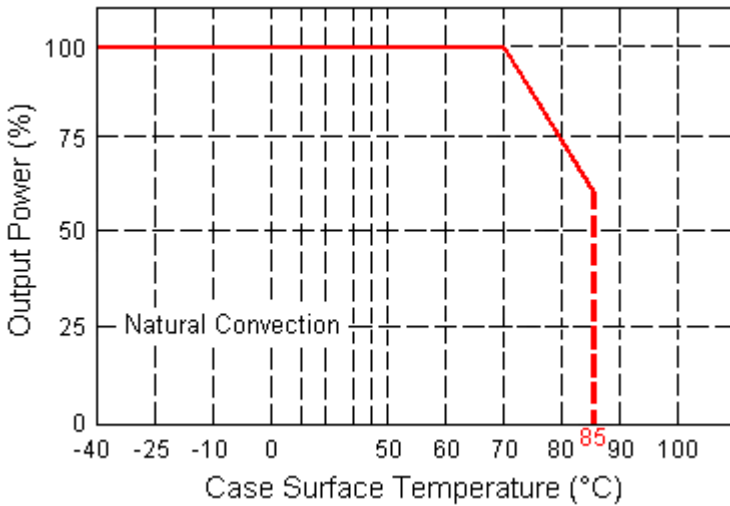
Package Material UL 94V-0

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

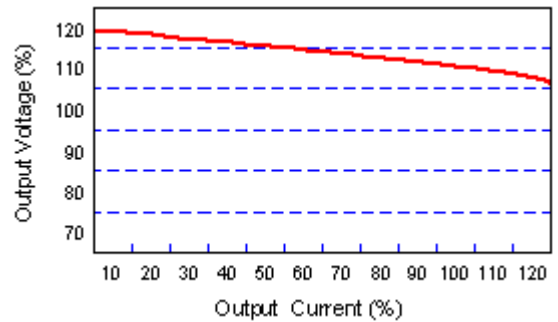
OUTPUT VOLTAGE / CURRENT RATING CHART

Model	Input Voltage Range	Output Voltage	Output Current	Output Power	Efficiency
LANE505R	5 VDC (4.75 – 5.25 VDC)	5 VDC	200mA	1W	65%
LANE509R		9 VDC	112mA	1W	70%
LANE512R		12 VDC	84mA	1W	70%
LANE515R		15 VDC	67mA	1W	70%
LANE1205R	12 VDC (11.4 – 12.6 VDC)	5 VDC	200mA	1W	70%
LANE1209R		9 VDC	112mA	1W	80%
LANE1212R		12 VDC	84mA	1W	80%
LANE1215R		15 VDC	67mA	1W	80%
LANE1505R	15 VDC (14.25 – 15.75 VDC)	5 VDC	200mA	1W	70%
LANE1509R		9 VDC	112mA	1W	80%
LANE1512R		12 VDC	84mA	1W	80%
LANE1515R		15 VDC	67mA	1W	80%
LANE2405R	24 VDC (22.8 – 25.2 VDC)	5 VDC	200mA	1W	75%
LANE2409R		9 VDC	112mA	1W	80%
LANE2412R		12 VDC	84mA	1W	80%
LANE2415R		15 VDC	67mA	1W	80%

DERATING CURVE

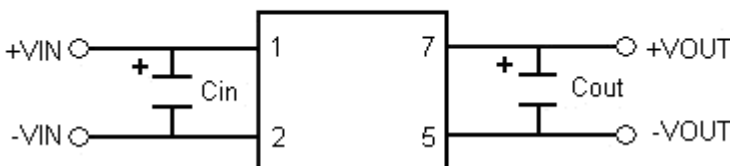


TOLERANCE ENVELOPE GRAPH



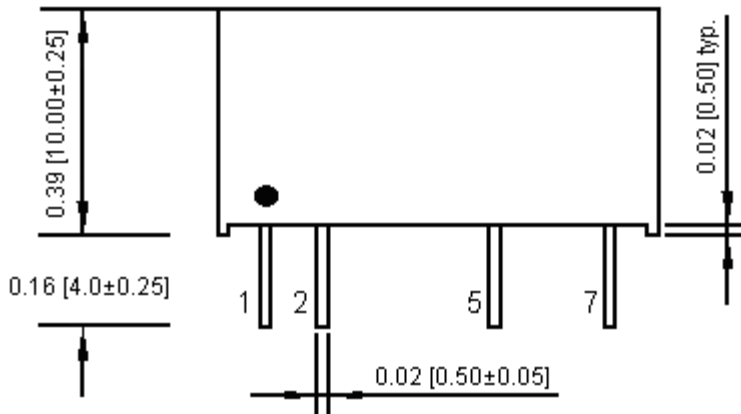
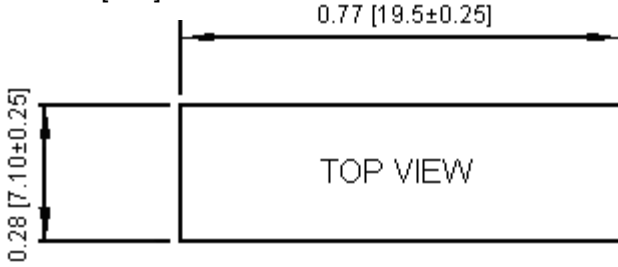
RECOMMENDED TEST CIRCUIT

Cin: 10 μ F, 100V
Cout: 100 μ F, 25V

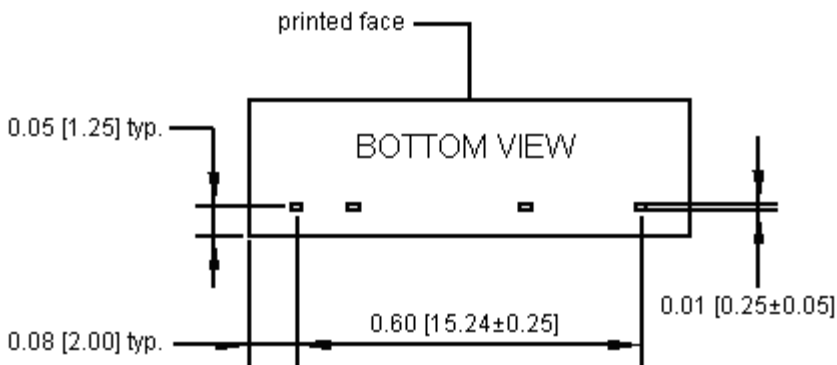


MECHANICAL DRAWING

Unit: inches [mm]



PIN CONNECTION	
Pin	Single Output
1	+Vin
2	-Vin
5	-Vout
7	+Vout



Typical tolerances are ±0.5



Wall Industries, Inc.

Rev A

LANE R Series
Single Output
1KVDC I/O Isolation
1 Watt DC/DC Converter

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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