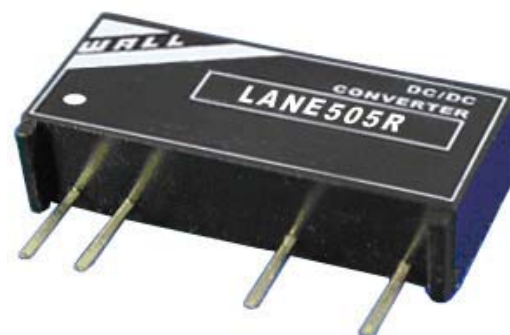


FEATURES

- 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 Protection Continuous

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



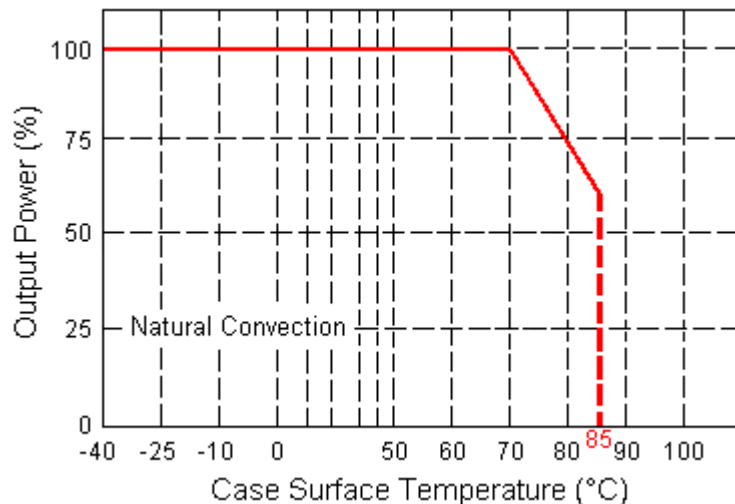
Wall Industries, Inc.

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

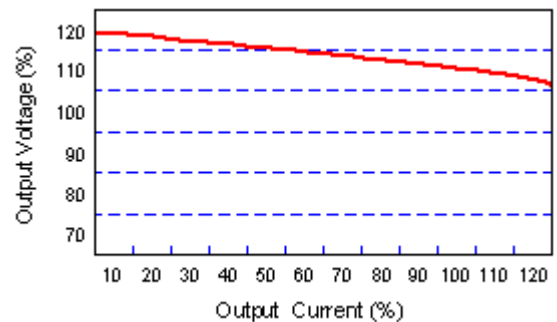
OUTPUT VOLTAGE / CURRENT RATING CHART

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

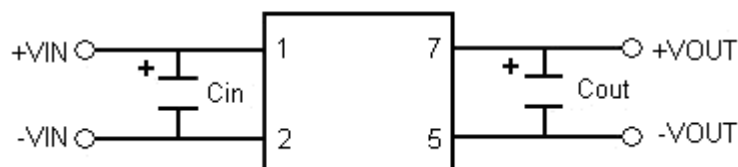


TOLERANCE ENVELOPE GRAPH



RECOMMENDED TEST CIRCUIT

Cin: 10 μ F, 100V
Cout: 100 μ F, 25V



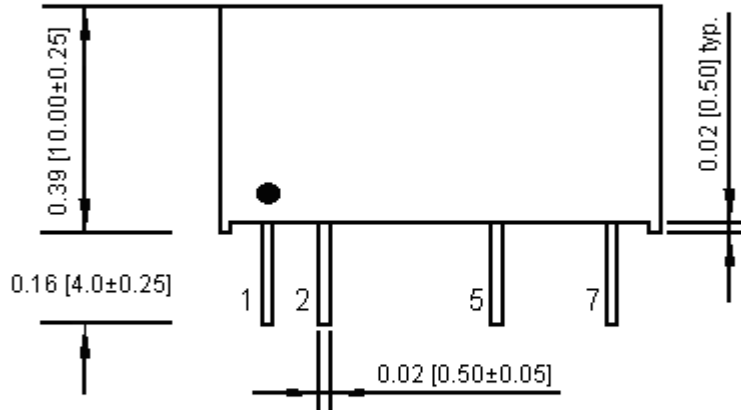
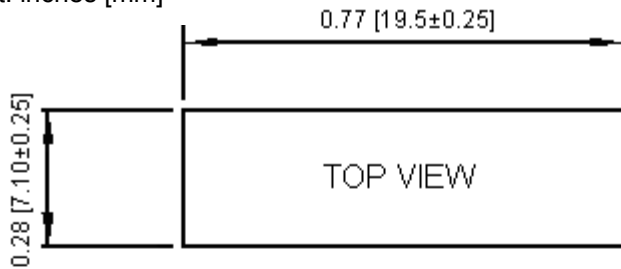


Wall Industries, Inc.

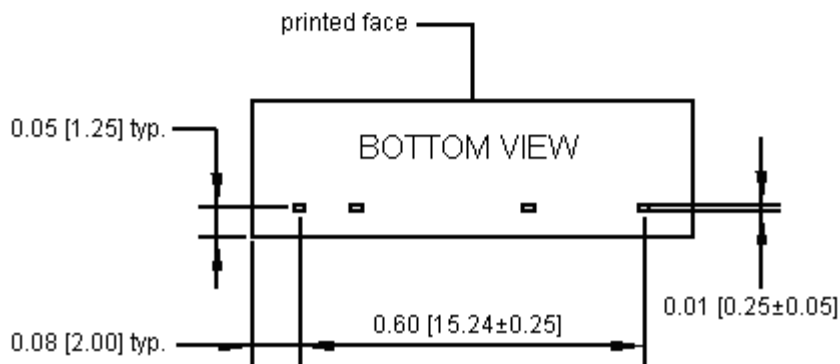
LANE R Series
Single Output
1KVDC I/O Isolation
1 Watt DC/DC Converter

MECHANICAL DRAWING

Unit: inches [mm]



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



Typical tolerances are ± 0.5