

## TO 3 WATTS - LAN C SERIES

Single and Dual Output DIP Package

### FEATURES

- Miniature Dual In-Line Package
- Two Levels of Isolation Available
- Low Reflected Ripple Current
- Regulated and Non-Regulated Versions
- Ripple/Noise: 50mV p-p typical

### THE LAN C SERIES FROM WALL INDUSTRIES

Offering alternate combinations from four different input voltage ranges; eight different output voltages; regulated and non-regulated versions; two levels of isolation and three tiers of power, the LAN C Series of DC/DC converters can be tailor-made to fit most any low power conversion requirement.



### SPECIFICATIONS: LAN C SERIES

*All specifications apply @ +25 C ambient unless otherwise noted.*

#### INPUT SPECIFICATIONS

Input Voltage Range .....5, 12, 15, 24, 48VDC  $\pm 10\%$   
 Input Filtering .....Pi Network

#### OUTPUT SPECIFICATIONS

Output Current.....see table  
 Voltage Tolerance ..... $\pm 5$  (nom. line, 100% load)  
 Line Regulation: Non-Regulated ..... $\pm 1.2\%$ /% of  $V_{in}$   
 Line Regulation: Regulated..... $\pm 1.0\%$   
 Load Regulation: Regulated(H option L & L = .5%) $\pm 1.0\%$   
 Load Regulation: Non-Regulated $\pm 8\%$  (20% to 100% load)  
 Ripple/Noise (20MHz BW) .....50mV p-p  
 Short Circuit Protection .....Continuous

#### GENERAL SPECIFICATIONS

Efficiency (typical).....55 to 65%  
 Isolation Voltage (input to output)500VDC or 3000VDC  
 Switching Frequency.....40kHz (min.)

#### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-25° to 71°C  
 Storage Temperature .....-40° to +125°C  
 Cooling .....Free air convection

#### PHYSICAL SPECIFICATIONS

Dimensions: 500VDC I/O Isolation ..1.25 x 0.8 x 0.4"  
 Dimensions: 3000VDC I/O Isolation1.25 x 0.8 x 0.40"  
 Case Material.....Non-conductive black plastic  
 (3 watt models - painted metal)

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

# TO 3 WATTS



# LANC SERIES

| 5VDC $\pm 10\%$ INPUT VOLTAGE RANGE |                     |                          | 12VDC $\pm 10\%$ INPUT VOLTAGE RANGE |                     |                          | 15VDC $\pm 10\%$ INPUT VOLTAGE RANGE |                     |                          | 24VDC $\pm 10\%$ INPUT VOLTAGE RANGE |                     |                          |
|-------------------------------------|---------------------|--------------------------|--------------------------------------|---------------------|--------------------------|--------------------------------------|---------------------|--------------------------|--------------------------------------|---------------------|--------------------------|
| Output Voltage (VDC)                | Output Current (mA) | Model Number (SEE NOTES) | Output Voltage (VDC)                 | Output Current (mA) | Model Number (SEE NOTES) | Output Voltage (VDC)                 | Output Current (mA) | Model Number (SEE NOTES) | Output Voltage (VDC)                 | Output Current (mA) | Model Number (SEE NOTES) |
| 5                                   | 300                 | LANC505R                 | 5                                    | 300                 | LANC1205R                | 5                                    | 300                 | LANC1505R                | 5                                    | 300                 | LANC2405R                |
| 5                                   | 400                 | LANC505R2                | 5                                    | 400                 | LANC1205R2               | 5                                    | 400                 | LANC1505R2               | 5                                    | 400                 | LANC2405R2               |
| 5                                   | 600                 | LANC505R3                | 5                                    | 600                 | LANC1205R3               | 5                                    | 600                 | LANC1505R3               | 5                                    | 600                 | LANC2405R3               |
| 12                                  | 125                 | LANC512R                 | 12                                   | 125                 | LANC1212R                | 12                                   | 125                 | LANC1512R                | 12                                   | 125                 | LANC2412R                |
| 12                                  | 166                 | LANC512R2                | 12                                   | 166                 | LANC1212R2               | 12                                   | 166                 | LANC1512R2               | 12                                   | 166                 | LANC2412R2               |
| 12                                  | 250                 | LANC512R3                | 12                                   | 250                 | LANC1212R3               | 12                                   | 250                 | LANC1512R3               | 12                                   | 250                 | LANC2412R3               |
| 15                                  | 100                 | LANC515R                 | 15                                   | 100                 | LANC1215R                | 15                                   | 100                 | LANC1515R                | 15                                   | 100                 | LANC2415R                |
| 15                                  | 133                 | LANC515R2                | 15                                   | 133                 | LANC1215R2               | 15                                   | 133                 | LANC1515R2               | 15                                   | 133                 | LANC2415R2               |
| 15                                  | 200                 | LANC515R3                | 15                                   | 200                 | LANC1215R3               | 15                                   | 200                 | LANC1515R3               | 15                                   | 200                 | LANC2415R3               |
| 24                                  | 65                  | LANC524R                 | 24                                   | 65                  | LANC1224R                | 24                                   | 65                  | LANC1524R                | 24                                   | 65                  | LANC2424R                |
| 24                                  | 83                  | LANC524R2                | 24                                   | 83                  | LANC1224R2               | 24                                   | 83                  | LANC1524R2               | 24                                   | 83                  | LANC2424R2               |
| 24                                  | 125                 | LANC524R3                | 24                                   | 125                 | LANC1224R3               | 24                                   | 125                 | LANC1524R3               | 24                                   | 125                 | LANC2424R3               |
| $\pm 5$                             | $\pm 150$           | LANC505RD                | $\pm 5$                              | $\pm 150$           | LANC1205RD               | $\pm 5$                              | $\pm 150$           | LANC1505RD               | $\pm 5$                              | $\pm 150$           | LANC2405RD               |
| $\pm 5$                             | $\pm 200$           | LANC505RD2               | $\pm 5$                              | $\pm 200$           | LANC1205RD2              | $\pm 5$                              | $\pm 200$           | LANC1505RD2              | $\pm 5$                              | $\pm 200$           | LANC2405RD2              |
| $\pm 5$                             | $\pm 300$           | LANC505RD3               | $\pm 5$                              | $\pm 300$           | LANC1205RD3              | $\pm 5$                              | $\pm 300$           | LANC1505RD3              | $\pm 5$                              | $\pm 300$           | LANC2405RD3              |
| $\pm 12$                            | $\pm 60$            | LANC512RD                | $\pm 12$                             | $\pm 60$            | LANC1212RD               | $\pm 12$                             | $\pm 60$            | LANC1512RD               | $\pm 12$                             | $\pm 60$            | LANC2412RD               |
| $\pm 12$                            | $\pm 83$            | LANC512RD2               | $\pm 12$                             | $\pm 83$            | LANC1212RD2              | $\pm 12$                             | $\pm 83$            | LANC1512RD2              | $\pm 12$                             | $\pm 83$            | LANC2412RD2              |
| $\pm 12$                            | $\pm 125$           | LANC512RD3               | $\pm 12$                             | $\pm 125$           | LANC1212RD3              | $\pm 12$                             | $\pm 125$           | LANC1512RD3              | $\pm 12$                             | $\pm 125$           | LANC2412RD3              |
| $\pm 15$                            | $\pm 50$            | LANC515RD                | $\pm 15$                             | $\pm 50$            | LANC1215RD               | $\pm 15$                             | $\pm 50$            | LANC1515RD               | $\pm 15$                             | $\pm 50$            | LANC2415RD               |
| $\pm 15$                            | $\pm 67$            | LANC515RD2               | $\pm 15$                             | $\pm 67$            | LANC1215RD2              | $\pm 15$                             | $\pm 67$            | LANC1515RD2              | $\pm 15$                             | $\pm 67$            | LANC2415RD2              |
| $\pm 15$                            | $\pm 100$           | LANC515RD3               | $\pm 15$                             | $\pm 100$           | LANC1215RD3              | $\pm 15$                             | $\pm 100$           | LANC1515RD3              | $\pm 15$                             | $\pm 100$           | LANC2415RD3              |

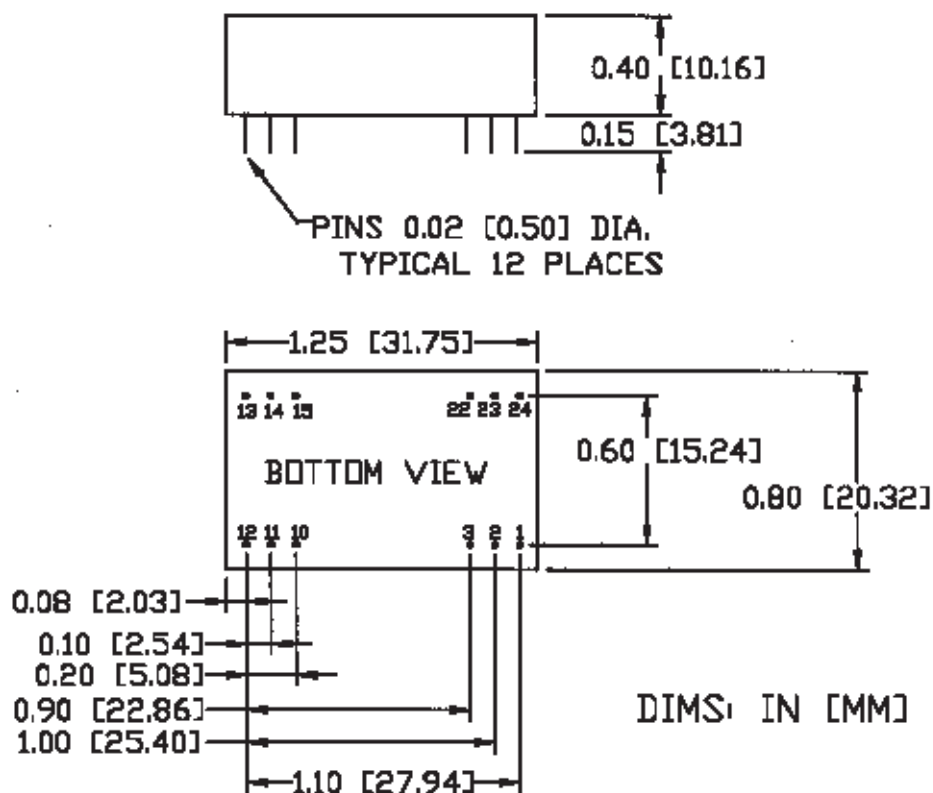
## PIN CONNECTIONS

| Isolation  | 500 VDC |               | 3000 VDC*  |            |
|------------|---------|---------------|------------|------------|
|            | Single  | Dual          | Single     | Dual       |
| Vin +      | 1, 24   | 1, 24         | 1, 2, 3    | 1, 2, 3    |
| Vin -      | 12, 13  | 12, 13        | 22, 23, 24 | 22, 23, 24 |
| Vout +     | 11, 14  | 11, 14        | 13         | 15         |
| Common     |         | 3, 10, 15, 22 |            | 10, 11     |
| Vout -     | 10, 15  | 2, 23         | 12         | 13         |
| No Connect | 2, 3    |               | 10, 11     | 12, 14     |
|            | 22, 23  |               | 14, 15     |            |

**NOTES:**

1. All parts are available in non-regulated versions, substitute "N" for "R" in part number to indicate non-regulated version.
2. Also available with 48VDC in. To specify, insert "48" in part number in place of input voltage.
3. All models available with 3000VDC I/O isolation. Add "H" onto end of part number for 3000VDC Input/Output isolation.
4. All DC/DC Converters should be properly fused on front end for protection.

## LAN C SERIES



*all case and pin-to-case dimensions for reference only unless otherwise noted.*