

## PRODUCT FEATURES

Low Ripple, Regulated, Single and Dual Output

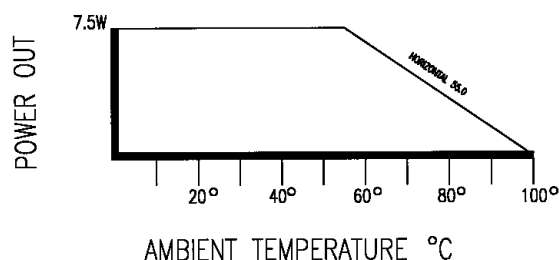
- Up to 7.5Watts Output Power
- High Input/Output Isolation
- Low Output Ripple
- Continuous Short Circuit Protection
- Pi-Input Filter
- Low Profile Package
- Ten Year Warranty



## THE L SERIES FROM WALL INDUSTRIES

The L Series features a low profile package of 2.0 x 2.0 x 0.40" with output power to 7.5watts. This series has excellent line and load regulation, input filtering, and low output ripple, as well as low input reflected ripple. Specifications include high I/O isolation (500VDC), low output ripple (<50mV P-P) and current limiting/thermal shutdown.

HORIZONTAL DERATING CURVE



## SPECIFICATIONS: L SERIES

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

### INPUT SPECIFICATIONS

Input Voltage Range.....5, 12, 24, 28, 28VDC  $\pm 10\%$   
 Nominal Input.....5, 12, 24, 28 VDC  
 Input Filter.....Pi-Input Filter

### OUTPUT SPECIFICATIONS

Output Current.....see table  
 Voltage Tolerance....(7.5W)..... $\pm 1\%$   
 .....3 & 5W  $\pm 5.0\%$   
 Thermal Shutdown approx. +100°C case (7.5W units only)  
 Line Regulation ..... $\pm 0.05\%$   
 .....3 & 5W 0.3%  
 Load Regulation ..... $\pm 0.5\%$   
 Short Circuit Protection.....linear current limiting  
 Ripple/Noise (20MHz BW).....50mV p-p  
 Over Voltage Protection.....see table

### GENERAL SPECIFICATIONS

Efficiency.....65% typical  
 Isolation Voltage (input to output).....500VDC min.  
 Isolation Resistance (input to output).....100 MOhms  
 Switching Frequency.....50kHz typical

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-25 to +85°C (case)  
 Storage Temperature.....-55 to +100°C  
 Humidity (non-condensing).....20 - 95% R.H.

### PHYSICAL SPECIFICATIONS

Weight.....2.3 oz.  
 Case Material.....Black coated metal,  
 .....non-conductive baseplate  
 Shielding connections.....Six-Sided Shielded case

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

| Input Voltage (VDC) | Output Voltage (VDC) | Output Current (mA) | Output Power (Watts) | Model Number (Center Pin-Out) | Model Number (Standard Pin-Out) | Input Voltage (VDC) | Output Voltage (VDC) | Output Current (mA) | Output Power (Watts) | Model Number (Center Pin-Out) | Model Number (Standard Pin-Out) |
|---------------------|----------------------|---------------------|----------------------|-------------------------------|---------------------------------|---------------------|----------------------|---------------------|----------------------|-------------------------------|---------------------------------|
| 5                   | 5                    | 600                 | 3                    | LCS55-600                     | LS55-600                        | 24                  | 5                    | 600                 | 3                    | LCS45-600                     | LS45-600                        |
|                     | 5                    | 1500                | 7.5                  | LCS55-1500                    | LS55-1500                       |                     | 5                    | 1000                | 5                    | LCS45-1000                    | LS45-1000                       |
|                     | 12                   | 250                 | 3                    | LCS512-250                    | LS512-250                       |                     | 5                    | 1500                | 7.5                  | LCS45-1500                    | LS45-1500                       |
|                     | 12                   | 500                 | 6                    | LCS512-500                    | LS512-500                       |                     | 12                   | 250                 | 3                    | LCS412-250                    | LS412-250                       |
|                     | 12                   | 630                 | 7.5                  | LCS512-630                    | LS512-630                       |                     | 12                   | 500                 | 6                    | LCS412-500                    | LS412-500                       |
|                     | 15                   | 200                 | 3                    | LCS515-200                    | LS515-600                       |                     | 12                   | 630                 | 7.5                  | LCS412-630                    | LS412-630                       |
|                     | 15                   | 400                 | 6                    | LCS515-400                    | LS515-400                       |                     | 15                   | 200                 | 3                    | LCS415-200                    | LS415-600                       |
|                     | 15                   | 500                 | 7.5                  | LCS515-500                    | LS515-500                       |                     | 15                   | 400                 | 6                    | LCS415-400                    | LS415-400                       |
|                     | ±5                   | 500                 | 5                    | LCD55-500                     | LD55-500                        |                     | 15                   | 500                 | 7.5                  | LCS415-500                    | LS415-500                       |
|                     | ±5                   | 750                 | 7.5                  | LCD55-750                     | LD55-750                        |                     | ±5                   | 500                 | 5                    | LCD45-500                     | LD45-500                        |
|                     | ±12                  | 125                 | 3                    | LCD512-125                    | LD512-125                       |                     | ±5                   | 750                 | 7.5                  | LCD45-750                     | LD45-750                        |
|                     | ±12                  | 250                 | 6                    | LCD512-250                    | LD512-250                       |                     | ±12                  | 125                 | 3                    | LCD412-125                    | LD412-125                       |
|                     | ±12                  | 310                 | 7.5                  | LCD512-310                    | LD512-310                       |                     | ±12                  | 250                 | 6                    | LCD412-250                    | LD412-250                       |
|                     | ±15                  | 100                 | 3                    | LCD515-100                    | LD515-100                       |                     | ±12                  | 310                 | 7.5                  | LCD412-310                    | LD412-310                       |
|                     | ±15                  | 200                 | 6                    | LCD515-200                    | LD515-200                       |                     | ±15                  | 100                 | 3                    | LCD415-100                    | LD415-100                       |
|                     | ±15                  | 250                 | 7.5                  | LCD515-250                    | LD515-250                       |                     | ±15                  | 200                 | 6                    | LCD415-200                    | LD415-200                       |
|                     |                      |                     |                      |                               |                                 |                     | ±15                  | 250                 | 7.5                  | LCD415-250                    | LD415-250                       |
| 12                  | 5                    | 600                 | 3                    | LCS25-600                     | LS25-600                        | 28                  | 5                    | 600                 | 3                    | LCS85-600                     | LS85-600                        |
|                     | 5                    | 1500                | 7.5                  | LCS25-1500                    | LS25-1500                       |                     | 5                    | 1500                | 7.5                  | LCS85-1500                    | LS85-1500                       |
|                     | 12                   | 250                 | 3                    | LCS212-250                    | LS212-250                       |                     | 12                   | 250                 | 3                    | LCS812-250                    | LS812-250                       |
|                     | 12                   | 500                 | 6                    | LCS212-500                    | LS212-500                       |                     | 12                   | 500                 | 6                    | LCS812-500                    | LS812-500                       |
|                     | 12                   | 630                 | 7.5                  | LCS212-630                    | LS212-630                       |                     | 12                   | 630                 | 7.5                  | LCS812-630                    | LS812-630                       |
|                     | 15                   | 200                 | 3                    | LCS215-200                    | LS215-600                       |                     | 15                   | 200                 | 3                    | LCS815-200                    | LS815-600                       |
|                     | 15                   | 400                 | 6                    | LCS215-400                    | LS215-400                       |                     | 15                   | 400                 | 6                    | LCS815-400                    | LS815-400                       |
|                     | 15                   | 500                 | 7.5                  | LCS215-500                    | LS215-500                       |                     | 15                   | 500                 | 7.5                  | LCS815-500                    | LS815-500                       |
|                     | ±5                   | 500                 | 5                    | LCD25-500                     | LD25-500                        |                     | ±5                   | 500                 | 5                    | LCD85-500                     | LD85-500                        |
|                     | ±5                   | 750                 | 7.5                  | LCD25-750                     | LD25-750                        |                     | ±5                   | 750                 | 7.5                  | LCD85-750                     | LD85-750                        |
|                     | ±12                  | 125                 | 3                    | LCD212-125                    | LD212-125                       |                     | ±12                  | 125                 | 3                    | LCD812-125                    | LD812-125                       |
|                     | ±12                  | 250                 | 6                    | LCD212-250                    | LD212-250                       |                     | ±12                  | 250                 | 6                    | LCD812-250                    | LD812-250                       |
|                     | ±12                  | 310                 | 7.5                  | LCD212-310                    | LD212-310                       |                     | ±12                  | 310                 | 7.5                  | LCD812-310                    | LD812-310                       |
|                     | ±15                  | 100                 | 3                    | LCD215-100                    | LD215-100                       |                     | ±15                  | 100                 | 3                    | LCD815-100                    | LD815-100                       |
|                     | ±15                  | 200                 | 6                    | LCD215-200                    | LD215-200                       |                     | ±15                  | 200                 | 6                    | LCD815-200                    | LD815-200                       |
|                     | ±15                  | 250                 | 7.5                  | LCD215-250                    | LD215-250                       |                     | ±15                  | 250                 | 7.5                  | LCD815-250                    | LD815-250                       |

## PIN CONNECTIONS

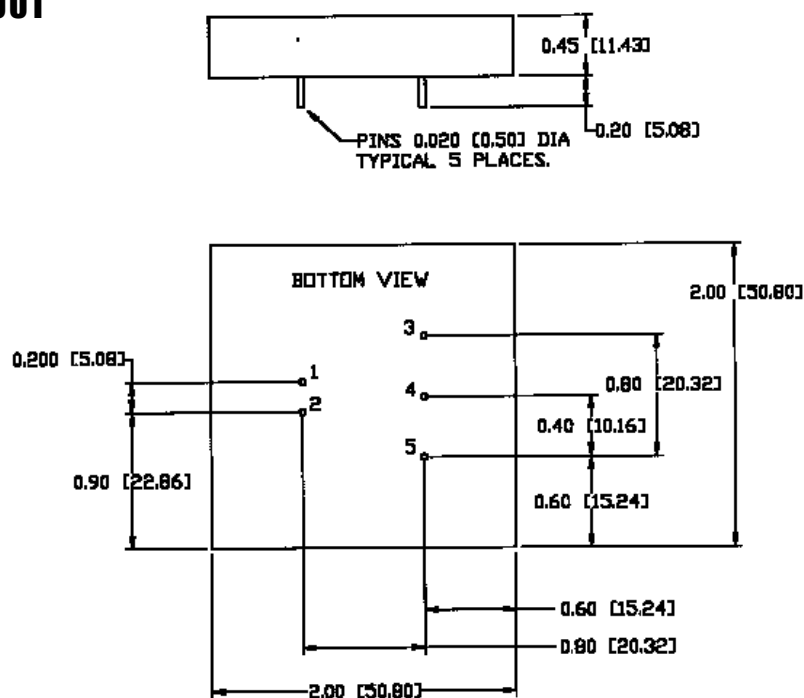
## Single Dual

|   |        |            |
|---|--------|------------|
| 1 | + Vin  | + Vin      |
| 2 | - Vin  | - Vin      |
| 3 | + Vout | + Vout     |
| 4 | N/C    | Common out |
| 5 | - Vout | - Vout     |

Note:

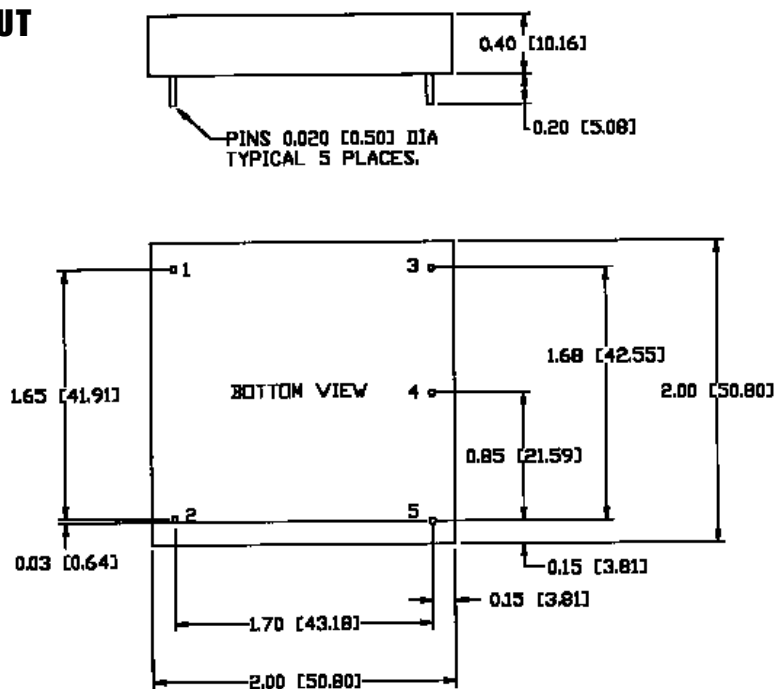
1. All case and pin-to-case dimensions reference only unless otherwise noted.

## CENTER PINOUT



DIMS: IN [MM]

## OPTIONAL PINOUT



DIMS: IN [MM]