

**TO 15 WATTS - LT SERIES**

### 2:1 or 4:1 Wide Input, Triple Outputs

## FEATURES

- ◆ Output Power Up to 15 Watts
- ◆ Wide Input Voltage Range (2:1 or 4:1)
- ◆ Industry Standard Pin-Out
- ◆ Indefinite Short Circuit Protection
- ◆ Input Filter for Low Reflected Ripple
- ◆ Assorted Triple Output Combinations
- ◆ Up to +85°C Case Operating Temperature
- ◆ Five Year Warranty



**THE LT SERIES FROM WALL INDUSTRIES**

The LT Series of DC/DC converters features units of 15 watts in a 2.0" x 2.0" x 0.40" package. The units are PC mountable and include an input filter for low reflected ripple, continuous short circuit protection, thermal shutdown, 500VDC input/output isolation and typical efficiencies of 80%.

## SPECIFICATIONS: LT SERIES

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

## INPUT SPECIFICATIONS

Input Voltage Range .....9-18, 18-36, 36-72, 9-36, 20-72VDC  
Nominal Input .....12,24,48VDC  
Input Filter .....Pi filter

## OUTPUT SPECIFICATIONS

Output Current .....	see table
Voltage Accuracy (+V1 & -V2) .....	± 2% max.
(+V3) .....	± 3% max.
Line Regulation (at full load) .....	± 1.0% max.
Load Regulation (50-100% load) .....	± 2.0% max.
Short Circuit Protection .....	Indefinite
Ripple/Noise (20MHz BW) .....	1% P-P max.
Transient Response (50% load drop) .....	200µsec to
.....	within 1% final value
Temperature Coefficient@ FL .....	± 0.02%/°C max.

## GENERAL SPECIFICATIONS

Efficiency .....	81% (typical)
Isolation Voltage (input to output) .....	500VDC min.
Isolation Resistance (input to output) .....	1000M $\Omega$
Switching Frequency .....	100kHz (typical)

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature .....	-25 to +71°C (ambient)
Derating .....	Not required
Storage Temperature .....	-55 to +125°C
Humidity (non-condensing) .....	20 - 95% R.H.

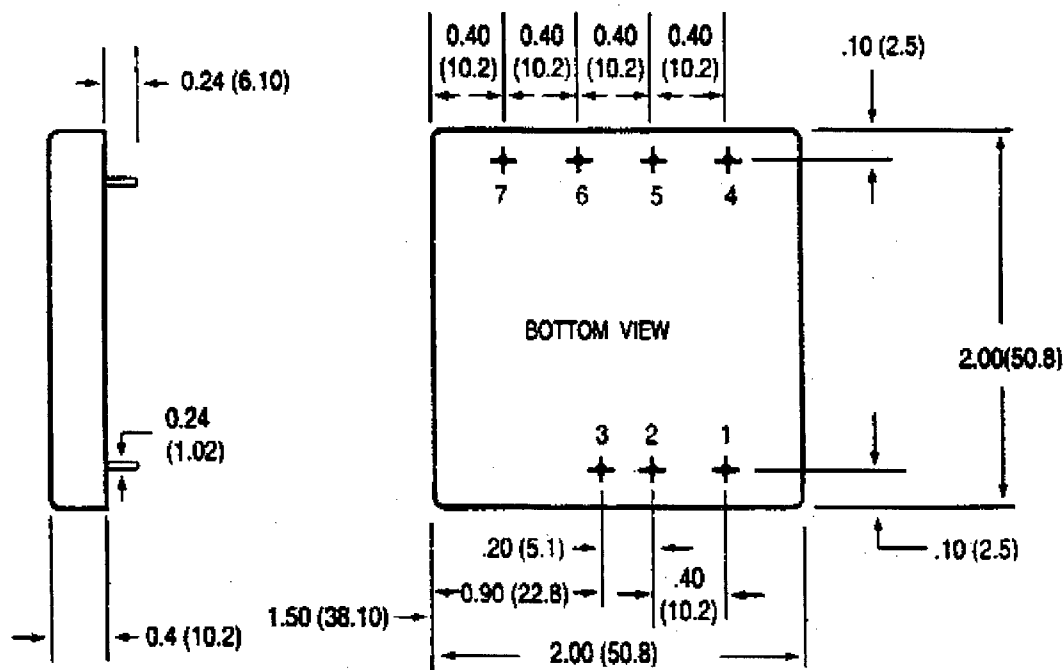
## PHYSICAL SPECIFICATIONS

Weight ..... 2.8 oz.

Case Material ..... Black coated copper,  
..... non-conductive baseplate

Shielding ..... Six-sided

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



Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Model Number
9-18	5/± 12	1500/± 310	LT1212-15E
	5/± 15	1500/± 250	LT1215-15E
	+5/+12/-5	1500/310/500	LT12512-15E
18-36	5/± 12	1500/± 310	LT2412-15E
	5/± 15	1500/± 250	LT2415-15E
	+5/+12/-5	1500/310/500	LT24512-15E
36-72	5/± 12	1500/± 310	LT4812-15E
	5/± 15	1500/± 250	LT4815-15E
	+5/+12/-5	1500/310/500	LT48512-15E
9-36	5/± 12	1500/± 310	LTW2412-15E
	5/± 15	1500/± 250	LTW2415-15E
	+5/+12/-5	1500/310/500	LTW24512-15E
20-72	5/± 12	1500/± 310	LTW4812-15E
	5/± 15	1500/± 250	LTW4815-15E
	+5/+12/-5	1500/310/500	LTW48512-15E

Add 'R' on to end of part number for remote on/off feature.

## PIN CONNECTIONS LT SERIES

1	Remote On/Off
2	- Vin
3	+ Vin
4	- Vout
5	Common
6	+ 5Vout
7	+ Vout

## Notes:

1. All case and pin to case dimensions reference only unless otherwise noted.
2. P.C. pins - 0.04" dia. x 0.20" long (min).
3. Pin to pin tolerance ± 0.01". Pin diameter tolerance ± 0.005"
4. 10% minimum load required.
5. Remote pin can be left floating if not used.
6. Significant capacitive load on output may inhibit start-up and operation, consult factory.
7. All DC/DC converters should be externally fused on the front end for protection.