# LMax Low Profile Power Inductor

## LMLP Series – Style O

## FEATURES

- Very low profile
- High current rating up to 1.4 Amps.
- Density design, small size, and low cost

## CHARACTERISTICS

- Rated Current (IDC): The DC current when the inductance becomes 30% lower than its initial value. (Ta=25°C)
- Operating temperature range: -40 ~ +100°C

## APPLICATIONS

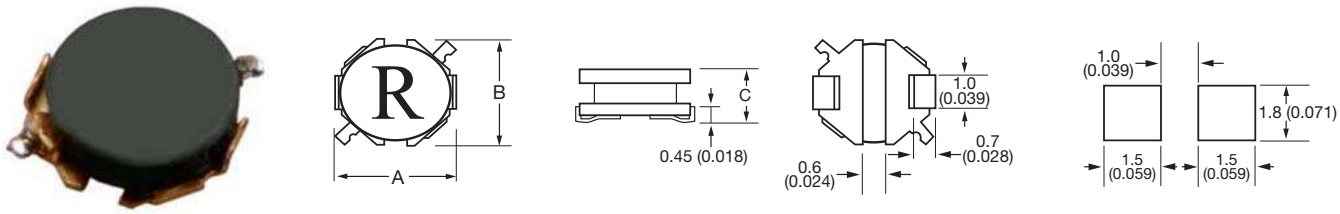
- Camcorder
- LCD TV
- MP3 Player
- GPS, PDAs
- Portable CDR-W
- Digital Cameras
- DC/DC Converters, etc

## INDUCTANCE AND RATED CURRENT RANGES

- 0312 1.0 ~ 68µH 1.40 ~ 0.17A
- Electrical specifications at 25°C

RoHS COMPLIANT

## DIMENSIONS




mm (inches)

| Type | A | B | C max |
|---|---|---|---|
| 0303 | 3.20 ± 0.30<br>(0.126 ± 0.012) | 3.20 ± 0.30<br>(0.126 ± 0.012) | 1.20<br>(0.047) |

## HOW TO ORDER

| LM | LP | 0303 | M | R04 | O | T | A | R |
|---|---|---|---|---|---|---|---|---|
| **Family**<br>LM = Power Inductor | **Series**<br>LP = Low Profile | **Size**<br>0303 | **Tolerance**<br>M = 20%<br>N = 30% | **Inductance**<br>3R9 = 3.900µH<br>390 = 39.00µH | **Style** | **Termination**<br>T = Sn Plate | **Special**<br>A = Standard | **Packaging**<br>R = 7" Reel |

## ELECTRICAL CHARACTERISTICS

### 0303

| Codes | L (µH) | Tolerance | Test Condition | DCR (Ω) max. | IDC (A) max. | Marking |
|---|---|---|---|---|---|---|
| 1R0 | 1.0 | N | 100KHz, 0.1V | 0.08 | 1.40 | A |
| 1R8 | 1.8 | N | 100KHz, 0.1V | 0.11 | 1.10 | C |
| 2R2 | 2.2 | N | 100KHz, 0.1V | 0.12 | 1.00 | D |
| 2R7 | 2.7 | N | 100KHz, 0.1V | 0.15 | 0.95 | E |
| 4R7 | 4.7 | N | 100KHz, 0.1V | 0.28 | 0.75 | H |
| 5R6 | 5.6 | N | 100KHz, 0.1V | 0.31 | 0.68 | I |
| 6R8 | 6.8 | N | 100KHz, 0.1V | 0.36 | 0.62 | K |
| 7R5 | 7.5 | N | 100KHz, 0.1V | 0.39 | 0.60 | L |
| 100 | 10 | M | 100KHz, 0.1V | 0.43 | 0.53 | M |
| 150 | 15 | M | 100KHz, 0.1V | 0.72 | 0.44 | O |
| 220 | 22 | M | 100KHz, 0.1V | 1.18 | 0.33 | R |
| 330 | 33 | M | 100KHz, 0.1V | 1.90 | 0.26 | T |
| 470 | 47 | M | 100KHz, 0.1V | 2.45 | 0.23 | V |
| 680 | 68 | M | 100KHz, 0.1V | 4.20 | 0.17 | X |