



# HLTN3015

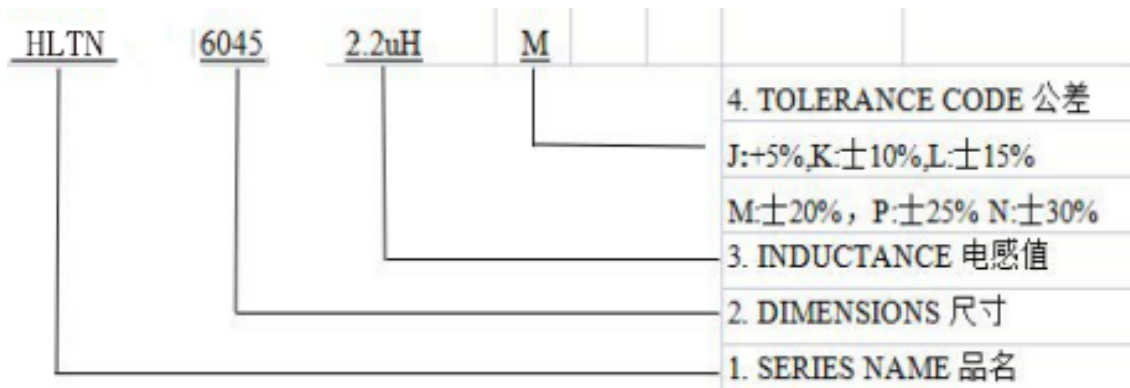
## FEATURES特性

1. Small and very Thin inductor 小型, 超薄电感器
2. Magnetic-resin shielded construction reduces buzz noise to ultra-low levels  
磁性胶水涂敷结构极大减少了蜂鸣声
3. Takes up less PCB real estate and save more power 省空间, 更省电

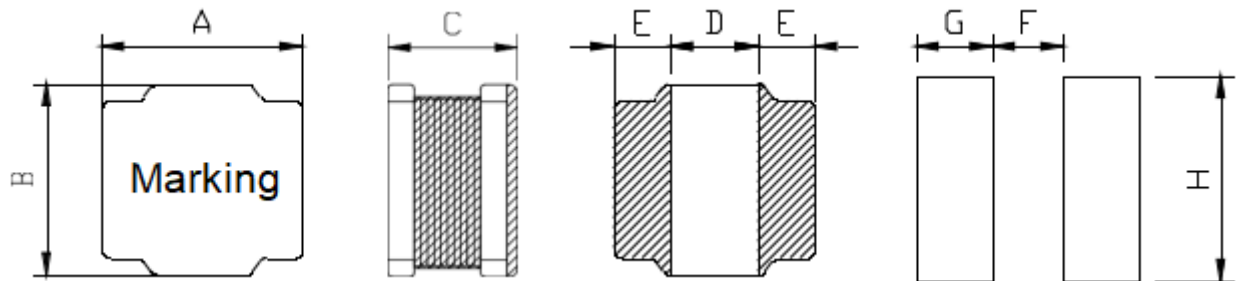
## APPLICATIONS 用途

1. LED Lighting LED 照明
2. Automotive systems 汽车产品
3. Notebooks, desktop computers, servers, graphic cards 笔记本电脑, 台式电脑, 服务器, 显卡

| Product title | Size (LxWxH)                  | Inductance | Rated current |
|---------------|-------------------------------|------------|---------------|
| HLTN3015      | 3.0±0.2mm/3.0±0.2mm/1.7mm Max | 1.0~47uH   | 2.35~0.35A    |



## PART NUMBERING SYSTEM



| TYPE(型号) | A       | B       | C      | D       | E       | F   | G   | H   |
|----------|---------|---------|--------|---------|---------|-----|-----|-----|
| HLTN3015 | 3.0±0.2 | 3.0±0.2 | 1.7Max | 1.2±0.3 | 0.9±0.3 | 1.1 | 1.0 | 2.7 |



## SPECIFICATION TABLE:

| PART NUMBER<br>品名    | INDUCTANCE ( $\mu$ H)<br>电感值 | DCR ( $\pm 30\%$ ) ( $\Omega$ )<br>直流电阻 | Isat<br>(Max.) (A)<br>饱和电流 | Irms<br>(Max.) (A)<br>额定电流 | S.R.F.<br>(Min.) (MHz)<br>自谐频率 |
|----------------------|------------------------------|---|----------------------------|----------------------------|--------------------------------|
| HLTN3015-<br>1.0uH/N | 1.0 $\pm 30\%$               | 0.039                                   | 2.32                       | 2.35                       | 150                            |
| HLTN3015-<br>1.2uH/N | 1.2 $\pm 30\%$               | 0.040                                   | 2.21                       | 1.95                       | 110                            |
| HLTN3015-<br>1.5uH/N | 1.5 $\pm 30\%$               | 0.050                                   | 2.00                       | 1.70                       | 100                            |
| HLTN3015-<br>1.8uH/N | 1.8 $\pm 30\%$               | 0.050                                   | 1.75                       | 1.70                       | 92                             |
| HLTN3015-<br>2.2uH/N | 2.2 $\pm 30\%$               | 0.060                                   | 1.60                       | 1.60                       | 86                             |
| HLTN3015-<br>3.3uH/N | 3.3 $\pm 20\%$               | 0.080                                   | 1.32                       | 1.36                       | 68                             |
| HLTN3015-<br>4.7uH/N | 4.7 $\pm 20\%$               | 0.125                                   | 1.10                       | 1.09                       | 46                             |



|                      |         |       |      |      |    |
|----------------------|---------|-------|------|------|----|
| HLTN3015-<br>6.8uH/M | 6.8±20% | 0.200 | 0.85 | 0.85 | 39 |
| HLTN3015-10uH/M      | 10±20%  | 0.250 | 0.72 | 0.77 | 41 |
| HLTN3015-12uH/M      | 12±20%  | 0.320 | 0.70 | 0.68 | 32 |
| HLTN3015-15uH/M      | 15±20%  | 0.350 | 0.66 | 0.65 | 30 |
| HLTN3015-18uH/M      | 18±20%  | 0.430 | 0.56 | 0.59 | 23 |
| HLTN3015-22uH/M      | 22±20%  | 0.460 | 0.52 | 0.57 | 23 |
| HLTN3015-33uH/M      | 33±20%  | 0.820 | 0.44 | 0.43 | 20 |
| HLTN3015-47uH/M      | 47±20%  | 1.250 | 0.35 | 0.35 | 14 |

**Remark:**

1. Inductance Tested at 1MHz, 0.25Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;

3. Irms: DC current that causes the temperature rise ( $\Delta T = 40^\circ\text{C}$ ) from 25°C ambient.

4. Operating Temperature :  $-25^\circ\text{C} \sim +125^\circ\text{C}$