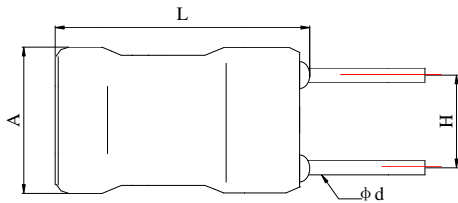




## LG2 固定功率电感系列

- 特征： 1. 高效率及高饱和电流；  
2. 可根据客户要求进行设计。
- 应用： 1. 打印机/液晶电视/复印机；  
2. DC/DC 转换。

### 一、外形尺寸：（单位：mm）



| 电感范围<br>( $\mu\text{H}$ ) | 最大电流<br>(mA) | 外形尺寸 (mm) |         |     |   |
|---------------------------|--------------|-----------|---------|-----|---|
|                           |              | D (max)   | L (max) | d   | H |
| 1~5600                    | 50           | 6.5       | 10      | 0.6 | 3 |
| 1~560                     | 150          | 6.5       | 10      | 0.6 | 3 |
| 1~82                      | 300          | 6.5       | 10      | 0.6 | 3 |
| 1~8.2                     | 700          | 6.5       | 10      | 0.6 | 3 |
| 1~8.2                     | 1600         | 6.5       | 10      | 0.6 | 3 |
| 6800~22000                | 50           | 8.0       | 12      | 0.7 | 4 |
| 680~5600                  | 150          | 8.0       | 12      | 0.7 | 4 |
| 100~1000                  | 300          | 8.0       | 12      | 0.7 | 4 |
| 10~82                     | 700          | 8.0       | 12      | 0.7 | 4 |
| 10~27                     | 1600         | 8.0       | 12      | 0.7 | 4 |
| 6800~10000                | 150          | 10        | 14      | 0.8 | 5 |
| 100~560                   | 700          | 10        | 14      | 0.8 | 5 |
| 33~82                     | 1600         | 10        | 14      | 0.8 | 5 |
| 100~560                   | 1600         | 12        | 18      | 1.0 | 6 |

### 电流等级：

| 等级          | A  | B   | C   | D   | E    |
|-------------|----|-----|-----|-----|------|
| 最大工作电流 (mA) | 50 | 150 | 300 | 700 | 1600 |

### 二、一般电气特性：

| 项 目 | LG2 |
|-----|-----|
|     |     |



# 鼎新电子 LG2 直插型固定电感

|                |     |          |
|----------------|-----|----------|
| 工作温度范围<br>(°C) | 民品级 | -25~+100 |
|                | 工业级 | -30~+105 |
|                | 军工级 | -40~+105 |
|                | 航天级 | -55~+105 |
| 常温存储温度 (°C)    |     | -10~+40  |
| 耐压 (VDC)       |     | >500     |
| 绝缘电阻 (Ω)       |     | >1M      |
| 引脚拉力 N         |     | >10      |

### 三、电气性能参数和测试条件见下表:

| 标称电感值<br>L (uH) | 误差   | Q (min) |    |    |    |    | 测试频率<br>(MHZ) | 直流电阻 (Ω) max |     |     |     |      |
|-----------------|------|---------|----|----|----|----|---------------|--------------|-----|-----|-----|------|
|                 |      | A       | B  | C  | D  | E  |               | A            | B   | C   | D   | E    |
| 0.10            | ±20% | 80      | 80 | 80 | 80 | 80 | 40            | 1.0          | 1.0 | 1.0 | 1.0 | 0.03 |
| 0.12            | ±20% | 80      | 80 | 80 | 80 | 80 | 40            | 1.0          | 1.0 | 1.0 | 1.0 | 0.03 |
| 0.15            | ±20% | 80      | 80 | 80 | 80 | 80 | 40            | 1.0          | 1.0 | 1.0 | 1.0 | 0.03 |
| 0.18            | ±20% | 80      | 80 | 80 | 80 | 80 | 24            | 1.0          | 1.0 | 1.0 | 1.0 | 0.03 |
| 0.22            | ±20% | 80      | 80 | 80 | 80 | 80 | 24            | 1.0          | 1.0 | 1.0 | 1.0 | 0.03 |
| 0.27            | ±20% | 80      | 80 | 80 | 80 | 80 | 24            | 1.0          | 1.0 | 1.0 | 1.0 | 0.03 |
| 0.33            | ±20% | 80      | 80 | 80 | 80 | 80 | 24            | 1.0          | 1.0 | 1.0 | 1.0 | 0.05 |
| 0.39            | ±20% | 80      | 80 | 80 | 80 | 80 | 24            | 1.0          | 1.0 | 1.0 | 1.0 | 0.05 |
| 0.47            | ±20% | 80      | 80 | 80 | 80 | 80 | 24            | 1.0          | 1.0 | 1.0 | 1.0 | 0.05 |
| 0.56            | ±20% | 80      | 80 | 80 | 80 | 80 | 24            | 1.0          | 1.0 | 1.0 | 1.0 | 0.05 |
| 0.68            | ±20% | 80      | 80 | 80 | 80 | 80 | 24            | 1.0          | 1.0 | 1.0 | 1.0 | 0.06 |
| 0.82            | ±20% | 80      | 80 | 80 | 80 | 80 | 24            | 1.0          | 1.0 | 1.0 | 1.0 | 0.06 |
| 1.0             | ±10% | 60      | 50 | 50 | 50 | 50 | 7.6           | 1.0          | 1.0 | 1.0 | 1.0 | 0.07 |
| 1.2             | ±10% | 60      | 50 | 50 | 50 | 50 | 7.6           | 1.0          | 1.0 | 1.0 | 1.0 | 0.07 |
| 1.5             | ±10% | 60      | 50 | 50 | 50 | 50 | 7.6           | 1.0          | 1.0 | 1.0 | 1.0 | 0.08 |



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| 1.8            | ±10% | 60      | 50 | 50 | 50 | 50 | 7.6           | 1.0          | 1.0 | 1.0 | 1.0 | 0.10 |      |
|----------------|------|---------|----|----|----|----|---------------|--------------|-----|-----|-----|------|------|
| 2.2            | ±10% | 60      | 50 | 50 | 50 | 50 | 7.6           | 1.0          | 1.0 | 1.0 | 1.0 | 0.10 |      |
| 2.7            | ±10% | 60      | 50 | 50 | 50 | 50 | 7.6           | 1.0          | 1.0 | 1.0 | 1.0 | 0.15 |      |
| 3.3            | ±10% | 60      | 50 | 50 | 50 | 50 | 7.6           | 1.0          | 1.0 | 1.0 | 1.0 | 0.15 |      |
| 3.9            | ±10% | 60      | 50 | 50 | 50 | 50 | 7.6           | 1.0          | 1.0 | 1.0 | 1.0 | 0.15 |      |
| 4.7            | ±10% | 60      | 50 | 50 | 40 | 30 | 7.6           | 1.0          | 1.0 | 1.0 | 1.0 | 0.15 |      |
| 5.6            | ±10% | 60      | 50 | 50 | 40 | 30 | 7.6           | 2.0          | 0.9 | 0.9 | 0.9 | 0.15 |      |
| 6.8            | ±10% | 60      | 50 | 50 | 40 | 30 | 5.0           | 2.0          | 1.0 | 1.0 | 1.0 | 0.15 |      |
| 8.2            | ±10% | 60      | 50 | 50 | 40 | 30 | 5.0           | 2.0          | 1.2 | 1.2 | 1.2 | 0.18 |      |
| 10             | ±10% | 60      | 50 | 50 | 40 | 30 | 2.4           | 2.0          | 1.2 | 1.2 | 1.2 | 0.18 |      |
| 12             | ±10% | 60      | 55 | 50 | 40 | 30 | 2.4           | 2.0          | 1.3 | 1.3 | 1.3 | 0.18 |      |
| 标称电感值<br>L(μH) | 误差   | Q (min) |    |    |    |    | 测试频率<br>(MHZ) | 直流电阻 (Ω) max |     |     |     |      |      |
|                |      | A       | B  | C  | D  | E  |               | A            | B   | C   | D   | E    |      |
| 15             | ±10% | 60      | 55 | 50 | 40 | 30 | 2.4           | 2.5          | 1.5 | 1.5 | 1.5 | 1.5  | 0.18 |
| 18             | ±10% | 60      | 55 | 50 | 40 | 30 | 2.4           | 2.5          | 2.0 | 2.0 | 2.0 | 2.0  | 0.20 |
| 22             | ±10% | 60      | 55 | 50 | 40 | 30 | 2.4           | 2.5          | 2.0 | 2.0 | 2.0 | 2.0  | 0.20 |
| 27             | ±10% | 60      | 55 | 50 | 40 | 30 | 2.4           | 3.5          | 2.2 | 2.2 | 2.2 | 2.2  | 0.20 |
| 33             | ±10% | 60      | 55 | 50 | 40 | 40 | 2.4           | 3.7          | 2.5 | 2.5 | 2.5 | 2.5  | 0.20 |
| 39             | ±10% | 60      | 55 | 50 | 40 | 40 | 2.4           | 4.0          | 2.8 | 2.8 | 2.8 | 2.8  | 0.23 |
| 47             | ±10% | 60      | 55 | 50 | 40 | 40 | 1.5           | 4.2          | 3.0 | 3.0 | 3.0 | 3.0  | 0.23 |
| 56             | ±10% | 60      | 55 | 50 | 40 | 40 | 1.5           | 4.8          | 3.0 | 3.0 | 3.0 | 3.0  | 0.23 |
| 68             | ±10% | 60      | 55 | 50 | 40 | 40 | 1.5           | 5.2          | 3.2 | 3.2 | 3.2 | 3.2  | 0.23 |



# 鼎新电子 LG2 直插型固定电感

|      |      |    |    |    |    |    |       |      |      |     |     |      |
|------|------|----|----|----|----|----|-------|------|------|-----|-----|------|
| 82   | ±10% | 60 | 55 | 50 | 40 | 40 | 1.5   | 5.7  | 3.5  | 3.5 | 3.5 | 0.23 |
| 100  | ±10% | 55 | 55 | 45 | 40 | 40 | 0.760 | 6.0  | 4.0  | 4.0 | 4.0 | 0.23 |
| 120  | ±10% | 55 | 55 | 45 | 40 | 40 | 0.760 | 6.5  | 4.2  | 4.2 | 4.2 | 0.25 |
| 150  | ±10% | 55 | 55 | 45 | 40 | 40 | 0.760 | 7.0  | 4.4  | 4.4 | 4.4 | 0.30 |
| 180  | ±10% | 55 | 55 | 45 | 40 | 40 | 0.760 | 8.0  | 4.6  | 4.6 | 4.6 | 0.50 |
| 220  | ±10% | 55 | 55 | 45 | 40 | 40 | 0.760 | 9.0  | 4.8  | 4.8 | 4.8 | 0.50 |
| 270  | ±10% | 55 | 55 | 45 | 40 | 40 | 0.760 | 9.5  | 5.0  | 5.0 | 5.0 | 0.50 |
| 330  | ±10% | 55 | 55 | 45 | 40 | 40 | 0.760 | 9.5  | 5.2  | 5.2 | 5.2 | 0.60 |
| 390  | ±10% | 55 | 55 | 45 | 40 | 40 | 0.400 | 10.5 | 5.4  | 5.4 | 5.4 | 0.60 |
| 470  | ±10% | 55 | 55 | 45 | 40 | 40 | 0.400 | 12   | 5.6  | 5.6 | 5.6 | 0.60 |
| 560  | ±10% | 55 | 55 | 45 | 40 | 40 | 0.400 | 13   | 5.8  | 5.8 | 5.8 | 0.60 |
| 680  | ±10% | 55 | 55 | 45 | -  | -  | 0.400 | 14   | 6.0  | 6.0 | -   | -    |
| 820  | ±10% | 55 | 55 | 45 | -  | -  | 0.400 | 16   | 6.2  | 6.2 | -   | -    |
| 1000 | ±10% | 55 | 55 | 45 | -  | -  | 0.240 | 17   | 7.8  | 7.8 | -   | -    |
| 1200 | ±10% | 55 | 55 | -  | -  | -  | 0.240 | 18   | 9.0  | -   | -   | -    |
| 1500 | ±10% | 55 | 55 | -  | -  | -  | 0.240 | 21   | 10.0 | -   | -   | -    |
| 1800 | ±10% | 55 | 55 | -  | -  | -  | 0.240 | 23   | 11.4 | -   | -   | -    |
| 2200 | ±10% | 55 | 55 | -  | -  | -  | 0.240 | 26   | 13   | -   | -   | -    |
| 2700 | ±10% | 55 | 55 | -  | -  | -  | 0.240 | 28   | 13.5 | -   | -   | -    |
| 3300 | ±10% | 55 | 55 | -  | -  | -  | 0.240 | 30   | 15   | -   | -   | -    |
| 3900 | ±10% | 40 | 40 | -  | -  | -  | 0.150 | 36   | 16   | -   | -   | -    |



鼎新电子

LG2 直插型固定电感

|       |          |    |    |   |   |   |       |    |      |   |   |   |
|-------|----------|----|----|---|---|---|-------|----|------|---|---|---|
| 4700  | ±<br>10% | 40 | 40 | - | - | - | 0.150 | 43 | 17.5 | - | - | - |
| 5600  | ±<br>10% | 40 | 40 | - | - | - | 0.150 | 48 | 18.5 | - | - | - |
| 6800  | ±<br>10% | 40 | 40 | - | - | - | 0.150 | 54 | 19.5 | - | - | - |
| 8200  | ±<br>10% | 40 | 40 | - | - | - | 0.150 | 60 | 22   | - | - | - |
| 10000 | ±<br>10% | 40 | 40 | - | - | - | 0.076 | 65 | 27.5 | - | - | - |
| 12000 | ±<br>10% | 40 | -  | - | - | - | 0.076 | 65 | 27.5 | - | - | - |
| 15000 | ±<br>10% | 40 | -  | - | - | - | 0.076 | 65 | 27.5 | - | - | - |
| 18000 | ±<br>10% | 40 | -  | - | - | - | 0.076 | -  | -    | - | - | - |
| 22000 | ±<br>10% | 40 | -  | - | - | - | 0.076 | -  | -    | - | - | - |

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