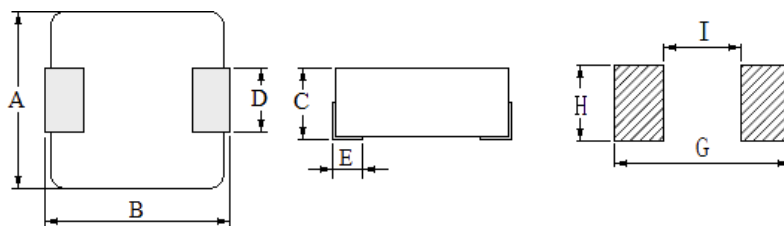


## 1、产品概要 / Outline

- ◆ 扁平线绕制
- ◆ 高稳定性耐大电流、耐高温
- ◆ 低损耗合金粉末全密封压铸
- ◆ 工作温度：-55℃~+155℃
- ◆ 适用于汽车、军工、医疗、航空航天等高可靠性的要求行业
- ◆ 广泛应用于汽车电子、车灯、高速 PC 显卡、医疗仪器、航空仪表、人工智能等高性能设备领域



## 2、外观尺寸/ Appearance size 单位:mm



| A       | B       | C       | D       | E       | G      | H      | I      |
|---------|---------|---------|---------|---------|--------|--------|--------|
| 5.2±0.3 | 5.7±0.4 | 3.0Max. | 2.0±0.5 | 1.0±0.5 | 6.0Ref | 2.8Ref | 2.0Ref |

## 3、电气特性/Electrical characteristics

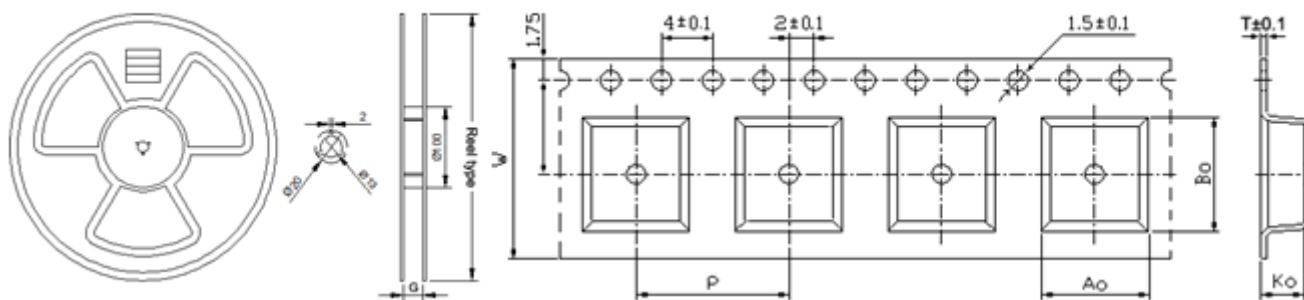
| 型号/NO        | L/uH | DCR ( mΩ ) | Irms(A) | Isat(A) |
|--------------|------|------------|---------|---------|
| TSM0530-R68M | 0.68 | 12.5       | 8.5     | 14      |
| TSM0530-1R0M | 1    | 15         | 7       | 11      |
| TSM0530-1R5M | 1.5  | 25         | 6       | 10      |
| TSM0530-2R2M | 2.2  | 32         | 5.5     | 9       |
| TSM0530-3R3M | 3.3  | 40         | 5       | 7       |
| TSM0530-4R7M | 4.7  | 60         | 4       | 6       |
| TSM0530-5R6M | 5.6  | 79         | 4       | 5.5     |
| TSM0530-6R8M | 6.8  | 86         | 3       | 5       |
| TSM0530-100M | 10   | 150        | 2       | 4       |
|              |      |            |         |         |
|              |      |            |         |         |
|              |      |            |         |         |

## 注释

- ◆ K 表示电感值的公差为±10%，M 表示电感值的公差为±20%
- ◆ K said inductance tolerance is ±10%, M said inductance tolerance is ± 20%
- ◆ 所有数据基于环境温度 25℃条件下测试
- ◆ All data is based on testing at an ambient temperature of 25 °C
- ◆ 测试条件：100KHz/1.0V
- ◆ 本页面未能录入全部或最新的数据，请您在订购前向本公司咨询精准参数及样品。
- ◆ We were unable to input all or the latest data on this page. Please consult our company for accurate parameters and samples before placing an order.

## 4 包装规格/ Packaging specifications 单位/mm

## 包装信息:



| Series   | QTY<br>(Pcs/Reel) | Ao   | Bo   | Ko   | G    | W  | P  | T   | Reel Typ. |
|----------|-------------------|------|------|------|------|----|----|-----|-----------|
| TSM0412  | 3000              | 4.3  | 4.8  | 1.4  | 12.5 | 12 | 8  | 0.4 | 13" 330mm |
| TSM0415  | 3000              | 4.3  | 4.8  | 1.7  | 12.5 | 12 | 8  | 0.4 | 13" 330mm |
| TSM0420  | 3000              | 4.3  | 4.8  | 2.2  | 12.5 | 12 | 8  | 0.4 | 13" 330mm |
| TSM0520  | 3000              | 5.5  | 6.0  | 2.2  | 12.5 | 12 | 8  | 0.4 | 13" 330mm |
| TSM0530  | 2000              | 5.5  | 6.0  | 3.2  | 12.5 | 12 | 8  | 0.4 | 13" 330mm |
| TSM0550  | 1500              | 5.5  | 6.0  | 5.2  | 12.5 | 12 | 8  | 0.4 | 13" 330mm |
| T SMA612 | 2000              | 6.6  | 7.3  | 1.4  | 16.5 | 16 | 12 | 0.4 | 13" 330mm |
| T SMA630 | 1000              | 6.6  | 7.3  | 3.2  | 16.5 | 16 | 12 | 0.4 | 13" 330mm |
| T SMA640 | 1000              | 6.6  | 7.3  | 4.2  | 16.5 | 16 | 12 | 0.4 | 13" 330mm |
| TSM0618  | 2000              | 7.2  | 8.0  | 2.0  | 16.5 | 16 | 12 | 0.4 | 13" 330mm |
| TSM0620  | 2000              | 7.2  | 8.0  | 2.2  | 16.5 | 16 | 12 | 0.4 | 13" 330mm |
| TSM0624  | 2000              | 7.2  | 8.0  | 2.6  | 16.5 | 16 | 12 | 0.4 | 13" 330mm |
| TSM0630  | 1000              | 7.2  | 8.0  | 3.2  | 16.5 | 16 | 12 | 0.4 | 13" 330mm |
| TSM0630A | 1000              | 7.2  | 8.0  | 3.2  | 16.5 | 16 | 12 | 0.4 | 13" 330mm |
| TSM0640  | 1000              | 7.2  | 8.0  | 4.2  | 16.5 | 16 | 12 | 0.4 | 13" 330mm |
| TSM0650  | 1000              | 7.2  | 8.0  | 5.2  | 16.5 | 16 | 12 | 0.4 | 13" 330mm |
| TSM0850  | 1000              | 7.8  | 8.6  | 5.2  | 16.5 | 16 | 12 | 0.4 | 13" 330mm |
| TSM1040  | 1000              | 11   | 12.0 | 4.2  | 24.5 | 24 | 16 | 0.4 | 13" 330mm |
| TSM1050  | 800               | 11   | 12.0 | 5.2  | 24.5 | 24 | 16 | 0.4 | 13" 330mm |
| TSM1235  | 500               | 13.5 | 14.5 | 3.7  | 24.5 | 24 | 16 | 0.4 | 13" 330mm |
| TSM1250  | 500               | 13.5 | 14.5 | 5.2  | 24.5 | 24 | 16 | 0.4 | 13" 330mm |
| TSM1265  | 500               | 13.5 | 14.5 | 6.7  | 24.5 | 24 | 16 | 0.4 | 13" 330mm |
| TSM1770  | 300               | 17.8 | 19.2 | 7.2  | 32.5 | 32 | 20 | 0.5 | 13" 330mm |
| TSM2213  | 100               | 22.5 | 23   | 13.2 | 44.5 | 44 | 32 | 0.5 | 13" 330mm |

5、焊接/welding

• 焊接原材料 Soldering Materials

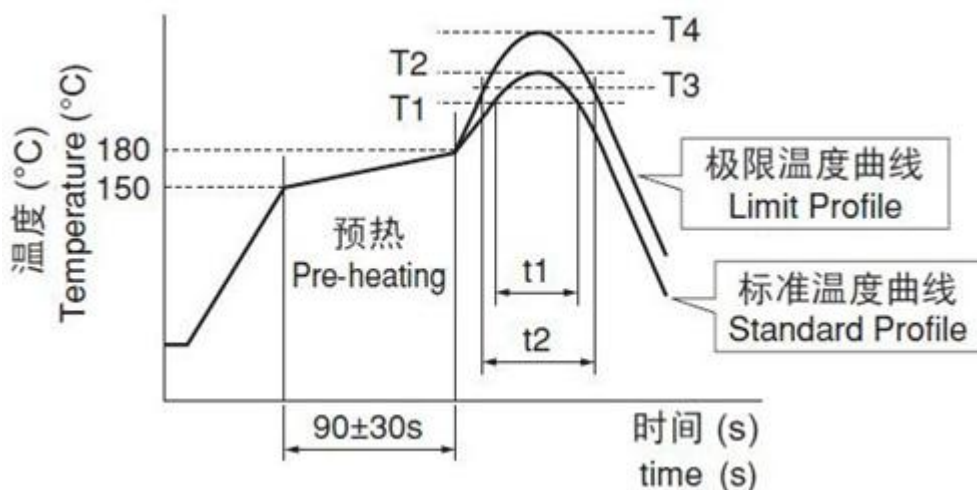
(a) 焊料 :推荐使用 96.5Sn/3.0Ag/0.5Cu 焊料 ,或者采用 Sn 含量不超过 97%的锡合金焊料。 Solder: It is recommended to use 96.5Sn/3.0Ag/0.5Cu solder, or use Tin alloy solder with a Tin content not exceeding 97%.

(b) 助焊剂 : 推荐使用松香类助焊剂, 请勿使用强酸性助焊剂 (含氯量超过 0.2wt %), 并且请勿使用水溶性助焊剂。

Flux: It is recommended to use rosin-based flux. Acidic flux (with chlorine content exceeding 0.2wt %) and water-soluble flux are forbidden.

• 焊接温度及要求 Soldering Temperature & Requirements

回流焊温度曲线 Reflow Soldering Temperature Profile



回流焊要求 Reflow Soldering Requirements

| 标准温度曲线Standard Profile |                          |                              |                               | 极限温度曲线Limit Profile   |                      |                              |                             |
|------------------------|--------------------------|------------------------------|-------------------------------|-----------------------|----------------------|------------------------------|-----------------------------|
| 加热Heating              |                          | 峰值温度<br>Peak Temp.<br>( T2 ) | 回流焊<br>次Cycle<br>Of<br>Reflow | 加热Heating             |                      | 峰值温度<br>Peak Temp.<br>( T4 ) | 回流焊次数<br>Cycle Of<br>Reflow |
| 加热<br>Temp.<br>( T1 )  | 时间<br>Ti<br>me<br>( t1 ) |                              |                               | 温度<br>Temp.<br>( T3 ) | 时间<br>Time<br>( t2 ) |                              |                             |
| 220°C                  | 30~60s                   | 245±3°C                      | ≤2                            | 230°C                 | ≤60s                 | 260°C/10s                    | 1                           |

6、其他

- ◆ 本产品为无铅, 请采用无铅环境作业
- ◆ Other: Our company's products are lead-free, please operate in a lead-free environment
- ◆ 由于页面限制, 更多资料请联系我司
- ◆ Due to page limitations, please contact our company for more information
- ◆ 在过载电流等不正常条件下, 本电感产品无自我保护功能。
- ◆ Under abnormal conditions such as overload current, this inductor product has no self-protection function.