

## 1 料号定义

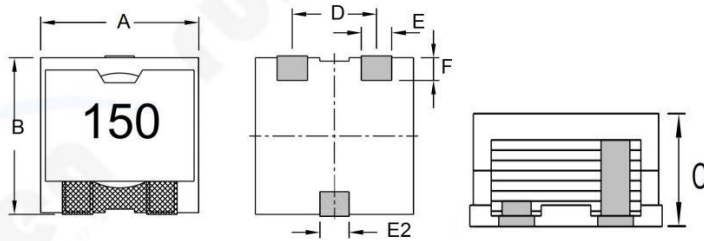
### Part No. definition

**RS**   **1512**   -   **100**   **M**  
 ①        ②                    ③        ④

- ① 产品代码 : 功率电感  
Product Code
- ② 产品尺寸 : 15.0×15.0×12mm  
Dimension
- ③ 电感值 : 例 100 = 10uH    150 = 15uH  
Inductance
- ④ 公差范围 : M = ±20%    N = ±30%  
Tolerance
- ※ 工作温度范围: -40°C ~ +155°C  
Operating temperature range : -40°C ~ +155°C (Including self-temperature rise)

## 2 外形尺寸(mm)

### Appearance and dimensions



A	B	C	D	E	E2	F
15.0Max	15.5Max	12.5Max	9.0±0.5	2.8REF.	2.5REF.	1.8REF

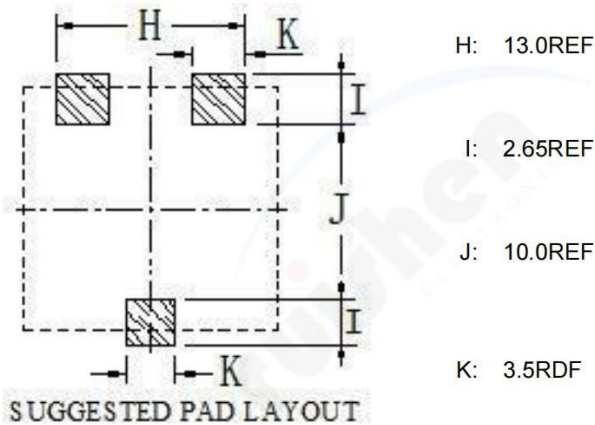
## 3 原理图

### Schematic



## 4 参考基板尺寸(mm)

### Reference PCB pattern



## 5 电气特性 Electrical characteristics

料号 Part No.	电感值 Inductance ( $\mu\text{H}$ ) ※1 $\pm 20\%$	直流电阻 DC Resistance ( $\text{m}\Omega$ )		温升电流 Heat Rating Current (A) ※2	饱和电流 Saturation Current (A) ※3
		Typical	Max		
RS1512-100M	10	6.7	7.9	10	14
RS1512-150M	15	9	11	9	12
RS1512-220M	22	13	15	7.5	9.5
RS1512-330M	33	15	18	6.8	8.5
RS1512-470M	47	15	18	6.5	7.5

※ 所有数据基于环境温度 25°C 条件下测试。  
All data is tested on 25°C ambient temperature.

※1 电感值测试条件为 100kHz, 1.0V。  
Inductance is tested at 100kHz, 1.0V.

※2 温升电流: 使产品温度上升到  $\Delta T 40^\circ\text{C}$  时所加载的直流电流值 ( $T_a=25^\circ\text{C}$ )。  
Heat rating current: The value of DC current when product temperature rise is  $\Delta T 40^\circ\text{C}$  ( $T_a=25^\circ\text{C}$ ).

※3 饱和电流: 电感值下降到其初始值的 35% 时所加载的直流电流值。  
Saturation current: The value of DC current when the inductance decreases 35% of its initial value.

## 6 包装规格

300pcs/盘