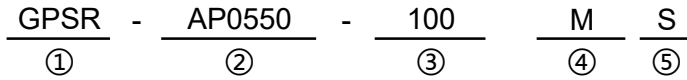


**1 型号定义**

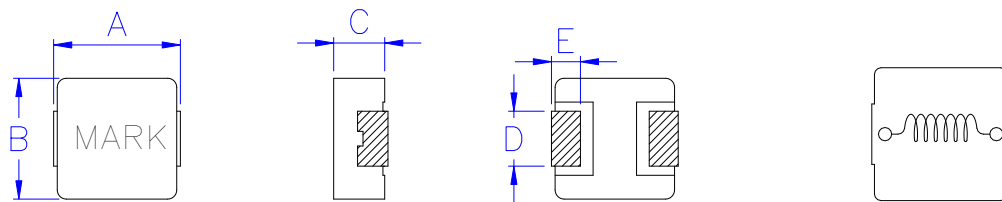
**Type No. definition**



- ① 产品代码 Product Code      一体成型电感
- ② 产品尺寸 Dimension      5.2X5.6X5.0mm
- ③ 电感值 Inductance      例Example: R47=0.47uH    1R0=1.0uH    220=22uH
- ④ 公差范围 Tolerance      J = ±5%    K = ±10%    L = ±10%    M = ±20%    N = ±30%
- ⑤ 表面颜色 Over coating      S:本色喷码印字Iron grey and marking.

**2 外形尺寸(mm)**

**Appearance and dimensions**



A	B	C	D	E
5.6±0.5	5.2±0.4	5.0Max	2.0±0.5	1.0±0.5

**3 原理图**

**Schematic**

**4 印字标识**

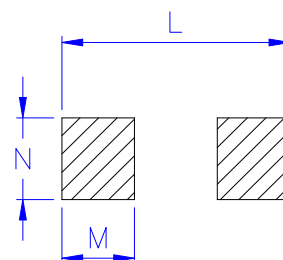
**Marking**



※ 感值

**5 参考基板尺寸(mm)**

**Reference PCB pattern**



L	6.5	Ref.
M	2.2	Ref.
N	2.5	Ref.

6 电气特性

Electrical characteristics

型号 Type No.	电感值 Inductance μH ※1	直流电阻 DC Resistance mΩ		温升电流 Heat Rating Current A	饱和电流 Saturation Current A
	±20%	Typ.	Max.	Max.	Max.
GPSR-AP0550-2R2MS	2.2	20.2	23.7	5.5	8.0
GPSR-AP0550-6R8MS	6.8	54.0	70.0	3.5	5.5
GPSR-AP0550-100MS	10	87.0	103.0	2.6	4.4
GPSR-AP0550-150MS	15	140.0	180.0	2.2	3.6
GPSR-AP0550-220MS	22	204.0	230.0	1.7	3.0
GPSR-AP0550-330MS	33	345.0	425.0	1.3	1.5

※1 电感值测试条件为100KHz/1V。

Inductance is tested at 100KHz/1V.

※2 温升电流：使产品温度上升到ΔT40°C时所加载的直流电流值(Ta=25°C)。

Heat rating current: The value of DC current when product temperature rise is ΔT40°C (Ta=25°C).

※3 饱和电流：电感值下降其初始值的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.

※4 特别提示：线路设计，组件布局，使用频率，散热系统等均会影响产品温度，请务必验证产品实际发热状况。

Special remind: Circuit design, component placement, frequency, cooling system and etc. all will affect the product temperature. Please verify the actual product temperature in the final application.

※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.

※6 工作温度范围：-40°C ~ +125°C (包含产品发热)

Operating temperature range : -40°C ~ +125°C (Including self-temperature rise)

**7 温升电流VS饱和电流曲线**  
Heat rating current VS saturation current curve

