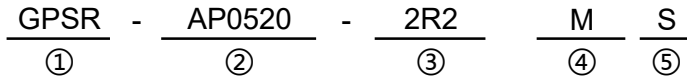


**1 型号定义**

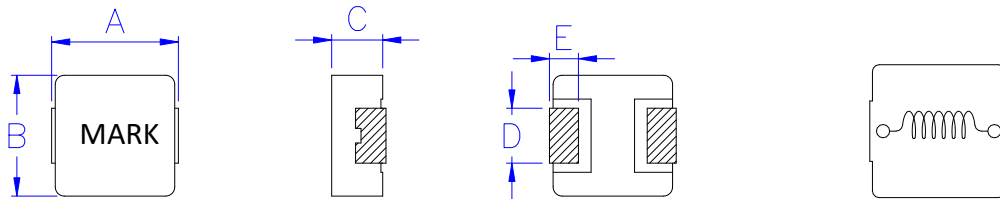
**Type No. definition**



- ① 产品代码 Product Code    一体成型电感
- ② 产品尺寸 Dimension    5.2X4.7X2.0mm
- 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
5.2±0.5	4.7±0.3	2.0Max	2.0±0.5	1.0±0.5

**3 原理图**

**Schematic**

**4 印字标识**

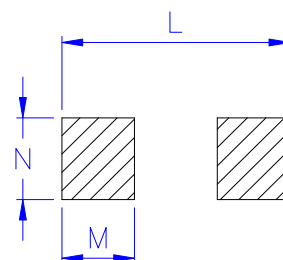
**Marking**



※ 感值

**5 参考基板尺寸(mm)**

**Reference PCB pattern**



L	7.0	Ref.
M	2.0	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-AP0520-R47MS	0.47	8.7	10.0	9.0	11.0
GPSR-AP0520-1R0MS	1.0	15.8	21.0	6.5	9.5
GPSR-AP0520-1R5MS	1.5	20.0	30.0	5.5	7.5
GPSR-AP0520-2R2MS	2.2	36.4	47.0	4.5	7.0
GPSR-AP0520-3R3MS	3.3	47.2	55.0	4.0	6.0
GPSR-AP0520-4R7MS	4.7	77.4	91.0	3.2	5.0
GPSR-AP0520-5R6MS	5.6	82.6	97.0	3.0	3.5
GPSR-AP0520-100MS	10.0	170.0	185.0	2.0	2.6

- ※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**

