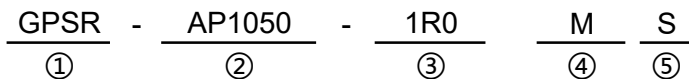


1 型号定义

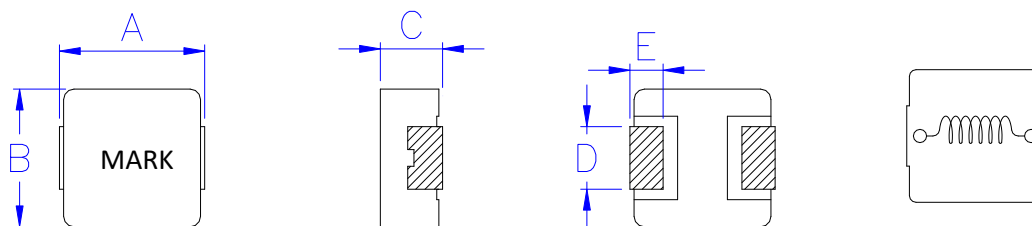
Type No. definition



- ① 产品代码 Product Code 一体成型电感
- ② 产品尺寸 Dimension 11.0X10.0X5.0mm
- 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
11.0±0.5	10.0±0.3	5.0MAX	3.0±0.3	2.2±0.5

3 原理图

Schematic

4 印字标识

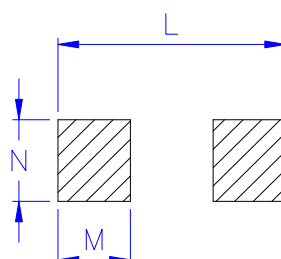
Marking



※ MARK:感值

5 参考基板尺寸(mm)

Reference PCB pattern



L	12.0	Ref.
M	3.8	Ref.
N	3.3	Ref.

6 电气特性

Electrical characteristics

型号 Type No.	电感值 Inductance μH	直流电阻 DC Resistance $\text{m}\Omega$		温升电流 Heat Rating Current A	饱和电流 Saturation Current A
	$\pm 20\%$	Typ.	Max.	Max.	Max.
GPSR-AP1050-1R0MS	1	2.4	3.2	21.0	35.0
GPSR-AP1050-1R5MS	1.5	3.2	3.9	17.0	25.0
GPSR-AP1050-2R2MS	2.2	4.5	7.0	15.0	22.0
GPSR-AP1050-4R7MS	4.7	11.0	12.5	10.5	18.0
GPSR-AP1050-6R8MS	6.8	16.8	21.0	8.0	15.0
GPSR-AP1050-100MS	10	22.5	29.0	7.5	12.0
GPSR-AP1050-150MS	15	33.5	50.0	6.5	8.0
GPSR-AP1050-220MS	22	53.9	66.0	5.0	7.0
GPSR-AP1050-330MS	33	85.5	100.0	4.0	6.5
GPSR-AP1050-470MS	47	99.5	130.0	3.5	5.5
GPSR-AP1050-680MS	68	170.0	210.0	2.5	4.5
GPSR-AP1050-101MS	100	214.0	258.0	2.0	3.5

※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 $\Delta T 40^{\circ}\text{C}$ 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： $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ （包含产品发热）

Operating temperature range : $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (Including self-temperature rise)

7 温升电流VS饱和电流曲线

