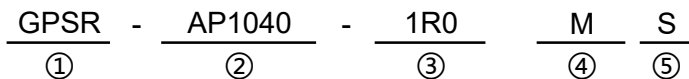


1 型号定义

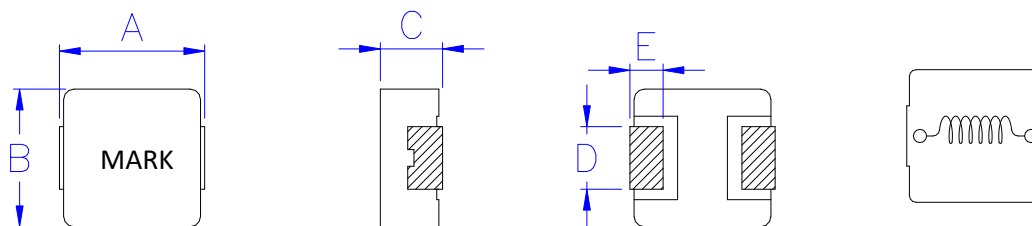
Type No. definition



- ① 产品代码 Product Code 一体成型电感
- ② 产品尺寸 Dimension 11.0X10.0X4.0mm
- 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	4.0MAX	3.0±0.3	2.2±0.5

3 原理图

Schematic

4 印字标识

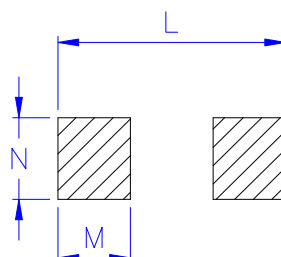
Marking



※ 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-AP1040-R47MS	0.47	1.4	1.8	27.0	40.0
GPSR-AP1040-R68MS	0.68	2.2	2.8	23.0	30.0
GPSR-AP1040-1R0MS	1	2.3	3.3	18.0	27.0
GPSR-AP1040-1R5MS	1.5	3.6	4.5	16.0	23.0
GPSR-AP1040-2R2MS	2.2	6.3	8.5	14.0	20.0
GPSR-AP1040-3R3MS	3.3	8.9	15.0	11.0	16.0
GPSR-AP1040-4R7MS	4.7	12.7	20.0	8.5	15.0
GPSR-AP1040-5R6MS	5.6	13.6	22.0	8.0	12.5
GPSR-AP1040-6R8MS	6.8	21.1	27.5	7.5	12.0
GPSR-AP1040-100MS	10	24.7	32.0	7.0	10.0
GPSR-AP1040-150MS	15	38.6	48.0	6.0	7.0
GPSR-AP1040-220MS	22	68.0	82.0	4.0	6.0
GPSR-AP1040-330MS	33	107.0	118.0	3.5	5.5
GPSR-AP1040-470MS	47	136.8	165.0	2.6	5.0
GPSR-AP1040-680MS	68	188.5	220.0	2.3	3.0

※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 温升与饱和电流曲线

