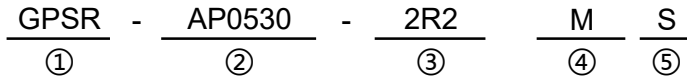


1 型号定义

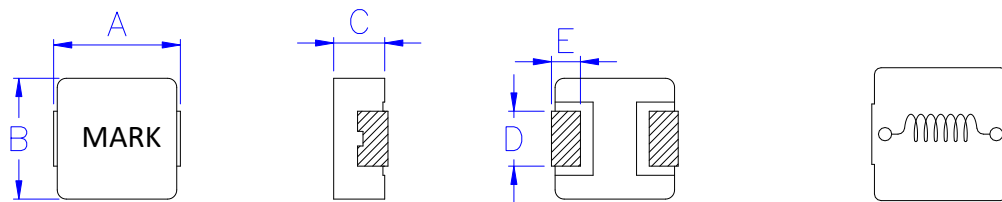
Type No. definition



- ① 产品代码 Product Code 一体成型电感
- ② 产品尺寸 Dimension 5.2X4.7X3.0mm
- 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	3.0Max	2.0±0.5	1.0±0.5

3 原理图

Schematic

4 印字标识

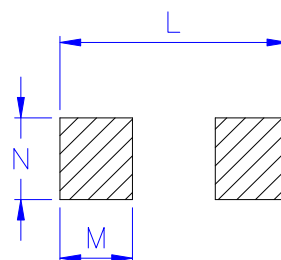
Marking



※ 感值

5 参考基板尺寸(mm)

Reference PCB pattern



L	7	Ref.
M	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-AP0530-R47MS	0.47	6.5	8.5	11.0	13.0
GPSR-AP0530-1R0MS	1	12.5	17.0	7.0	11.0
GPSR-AP0530-1R5MS	1.5	16.0	19.0	6.0	10.0
GPSR-AP0530-2R2MS	2.2	26.5	30.0	5.0	8.0
GPSR-AP0530-3R3MS	3.3	33.0	42.0	4.2	7.2
GPSR-AP0530-4R7MS	4.7	49.0	58.0	3.8	5.8
GPSR-AP0530-5R6MS	5.6	55.3	80.0	3.5	5.6
GPSR-AP0530-6R8MS	6.8	82.0	97.0	3.0	5.4
GPSR-AP0530-100MS	10	115.0	150.0	2.5	4.3
GPSR-AP0530-150MS	15	153.0	200.0	2.0	3.5
GPSR-AP0530-220MS	22	245.0	300.0	1.6	2.5

- ※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

