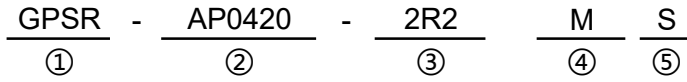


1 型号定义

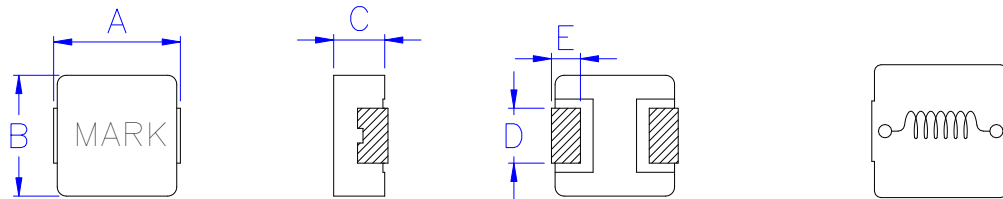
Type No. definition



- ① 产品代码 Product Code 一体成型电感
- ② 产品尺寸 Dimension 4.0X4.3X2.0mm
- 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
4.3±0.5	4.0±0.3	2.0Max	1.5±0.5	0.8±0.5

3 原理图

Schematic

4 印字标识

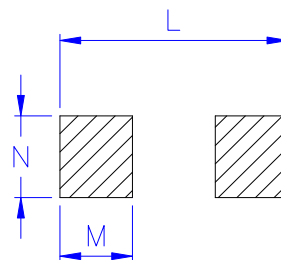
Marking



※ 感值

5 参考基板尺寸(mm)

Reference PCB pattern



L	4.3	Ref.
M	1.5	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-AP0420-R10MS	0.10	3.4	6.0	12.0	22.0
GPSR-AP0420-R22MS	0.22	5.7	9.0	11.5	15.0
GPSR-AP0420-R33MS	0.33	8.7	11.0	9.0	14.0
GPSR-AP0420-R47MS	0.47	12.8	15.5	7.0	10.0
GPSR-AP0420-R68MS	0.68	17.0	20.0	6.0	9.0
GPSR-AP0420-1R0MS	1.0	22.0	25.0	4.5	7.0
GPSR-AP0420-1R5MS	1.5	27.4	35.0	4.0	6.5
GPSR-AP0420-2R2MS	2.2	43.0	55.0	3.5	5.0
GPSR-AP0420-3R3MS	3.3	61.0	72.0	3.0	4.0
GPSR-AP0420-4R7MS	4.7	111.0	126.0	2.3	3.5
GPSR-AP0420-6R8MS	6.8	138.0	158.0	1.8	3.0
GPSR-AP0420-100MS	10.0	237.0	283.0	1.5	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

