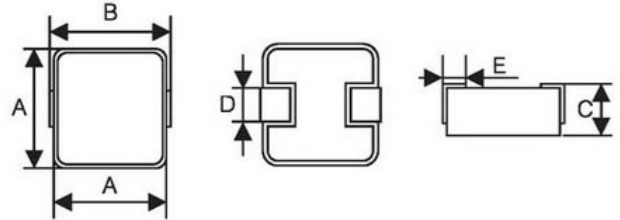




产品外形及尺寸 Shapes & Dimensions (Unit:mm)



产品型号	A	B	C	D	E
SMP0420	4.0±0.3	4.4±0.35	1.8±0.2	1.5±0.3	0.8±0.3
SMP0520	5.3±0.3	5.6±0.35	1.8±0.2	2.2±0.3	1.2±0.3
SMP0530	5.3±0.3	5.6±0.35	2.8±0.2	2.2±0.3	1.2±0.3
SMP0624	6.6±0.3	7.3±0.35	2.2±0.2	3.0±0.3	1.6±0.3
SMP0630	6.6±0.3	7.3±0.35	2.8±0.2	3.0±0.3	1.6±0.3
SMP0655	6.6±0.3	7.3±0.35	5.2±0.3	3.0±0.3	1.6±0.3
SMP0840	8.0±0.3	8.8±0.5	3.8±0.2	3.0±0.3	1.7±0.3
SMP1040	10.0±0.3	11.0±0.5	3.8±0.2	3.0±0.3	2.3±0.3
SMP1050	10.0±0.3	11.0±0.5	4.8±0.2	3.0±0.3	2.3±0.3
SMP1250	12.8±0.3	13.5±0.5	4.8±0.2	3.8±0.3	2.5±0.5
SMP1265	12.8±0.3	13.5±0.5	6.2±0.3	3.8±0.3	2.5±0.5
SMP1770	17.0±0.5	18.0±0.5	6.5±0.5	11.8±0.3	2.8±0.5

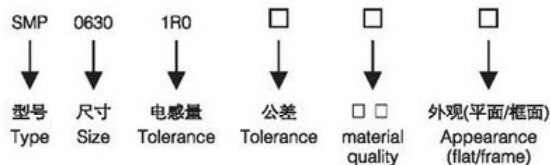
产品特点 Features

- 产品一致性高，且适用于表面贴装技术
- 使用频率最高可达到5MHz
- 同产品尺寸直流阻抗最低
- 可靠性高，饱和电流感值降幅平顺
- 模压全封闭结构，大幅降低噪声及磁电干扰
- 产品无铅，符合ROHS标准

应用领域 Applications

- 优质DC-DC电源转换器
- 办公自动化设备
- 笔记本电脑和其他手持电子设备的电源转换器
- 电力输送设备和工业自动控制设备

产品标识 Product Identification



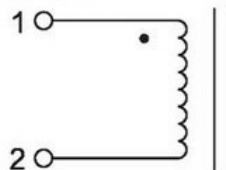
印字 Marking



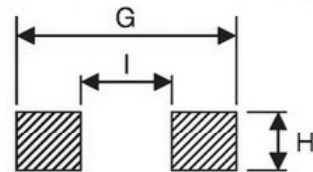
电感器用一个三位数的代码标记
例如:1.0 μH-1R0
注:产品使用喷墨方式进行标注
The inductor is marked with
a 3-digit code
Example:1.0 μH-1R0

电路原理 Electrical Schematics

SCHEMATICS



推荐焊盘尺寸 Recommend The Bonding Pad Size



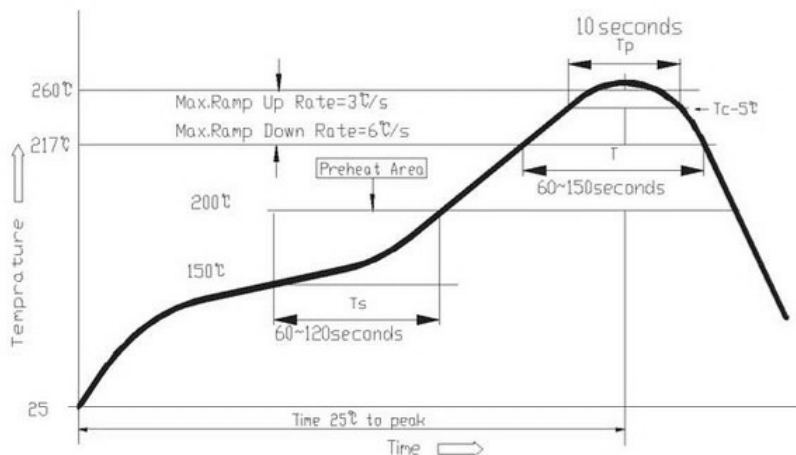
产品型号	G(参考值)	H(参考值)	I(参考值)
SMP04系列	5.2	2.5	2.2
SMP05系列	6.2	2.5	2.5
SMP06系列	8.4	3.5	3.5
SMP08系列	11.5	3.5	4.5
SMP10系列	13.6	4.0	5.4
SMP12系列	14.5	5.0	6.0
SMP17系列	20.0	14.5	10.0

●注:以上焊盘尺寸仅供参考。
The above sizes are for reference only

部分产品电气特性 Electrical Characteristics of Some Products

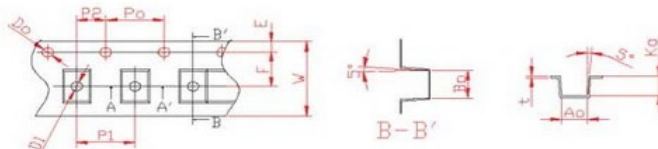
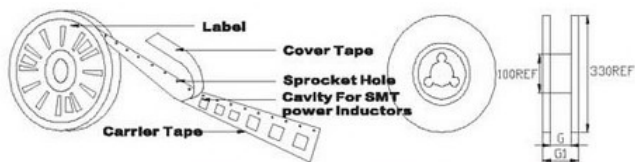
产品规格	电感量范围 μH 100KHz/1v	直流电阻范围mΩ Max	温升电流范围 A	饱和电流范围 A
SMP04	0.1 ~ 10	4 ~ 220	1.2 ~ 12	2 ~ 22
SMP05	0.47 ~ 15	12.5 ~ 200	1.7 ~ 9.0	2.8 ~ 16
SMP06	0.22 ~ 100	3.6 ~ 558	1.4 ~ 19	1.8 ~ 32
SMP08	0.47 ~ 100	3.5 ~ 445	1.5 ~ 12.5	2.9 ~ 20
SMP10	0.33 ~ 100	1.3 ~ 320	2.5 ~ 30	3.5 ~ 60
SMP12	0.33 ~ 100	1.2 ~ 170	3 ~ 30	5 ~ 74
SMP17	1 ~ 100	1.35 ~ 140	4.2 ~ 48	7 ~ 60

推荐回流焊曲线 Recommended Soldering Technologies



- 注:
- 1)电感值范围:N= ± 30%,M= ± 20%,K= ± 10%
 - 2)所有试验数据参照25°C ± 2°C 环境
 - 3)电感值测试条件为 100KHz, 1V
 - 4)产品工作温度范围-55°C至 +125°C
 - 5)温升电流(Irms)产品温度上升不超过40°C
 - 6)饱和电流(Isat)产品感值下跌不超过30%.
 - 7)在最坏的工作下, 零件温度(环境温度+温升)不应超过125°C。电路设计、元件布置、PWB痕迹厚度、气流等冷却措施均影响零件温度, 零件温度应在最终使用时进行验证。
 - 8)以上电感量及特性仅供参考, 也可根据客户要求电感量进行设计制作。
- (1)Tolerance of Inductance:N= ± 30%,M= ± 20%,K= ± 10%.
 - (2)All test data is referenced to 25 ± 2°C ambient.
 - (3)The test condition of inductance value is 100KHz and 1V.
 - (4)Operating Temperature Range -55°C to +125°C.
 - (5)DC current (Irms)(A) that will cause an approximate Δ T of 40°C.
 - (6)DC current(Isat)(A) that will cause Lo to drop approximately 30%.
 - (7)The part Temperature (ambient+temp rise)should not exceed 125°C under worst case operating conditions. Circuit design,component placement,PWB trace thickness and thickness,airflow and other cooling provision all affect the part temperature Part temperature should be verified in the end application.
 - (8)The above inductance quantity and characteristic are only for reference, but also can be designed according to customer's requirement.

包装带尺寸 Packing Carrying Tape Size

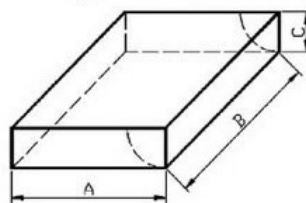


产品规格	W ± 0.20	E ± 0.10	F ± 0.05	D0 ± 0.1/-0	D1 ± 0.1/-0	P0 ± 0.05	P1 ± 0.10	P2 ± 0.10	P0.10 ± 0.20	t ± 0.05	A0 ± 0.10	B0 ± 0.10	K0 ± 0.10	G ± 0.20	备注
SMP0420	12.00	1.75	5.50	1.50	1.50	4.00	8.00	2.00	40.00	0.30	4.30	4.40	2.30	12.5	
SMP0520	12.00	1.75	5.50	1.50	1.50	4.00	8.00	2.00	40.00	0.30	5.00	5.80	2.30	12.5	
SMP0530	16.00	1.75	5.50	1.50	1.50	4.00	8.00	2.00	40.00	0.30	5.00	5.80	3.20	12.5	
SMP0624	16.00	1.75	7.50	1.50	1.50	4.00	12.00	2.00	40.00	0.30	6.90	7.40	2.60	16.5	
SMP0630	16.00	1.75	7.50	1.50	1.50	4.00	12.00	2.00	40.00	0.30	6.90	7.40	3.30	16.5	
SMP0840	16.00	1.75	7.50	1.50	1.50	4.00	12.00	2.00	40.00	0.35	8.60	8.60	4.50	24.5	
SMP0850	16.00	1.75	7.50	1.50	1.50	4.00	12.00	2.00	40.00	0.35	8.60	8.60	5.50	24.5	
SMP1040	24.00	1.75	11.50	1.50	1.50	4.00	16.00	2.00	40.00	0.35	10.60	12.00	4.50	24.5	
SMP1050	24.00	1.75	11.50	1.50	1.50	4.00	16.00	2.00	40.00	0.35	10.60	12.00	5.50	24.5	
SMP1250	24.00	1.75	11.50	1.50	1.50	4.00	16.00	2.00	40.00	0.35	13.00	13.10	5.20	24.5	
SMP1265	24.00	1.75	11.50	1.50	1.50	4.00	16.00	2.00	40.00	0.35	13.00	13.10	6.70	24.5	
SMP1770	32.00	1.75	14.20	1.50	1.50	4.00	24.00	2.00	40.00	0.35	17.25	19.00	7.10	32.5	

包装方式 Packing method

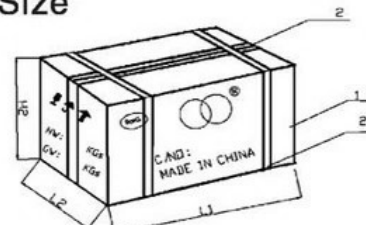
产品规格	每盘最小包装	产品规格	每盘最小包装
SMP0420	3000pcs/R	SMP0840	1000pcs/R
SMP0520	3000pcs/R	SMP1040	1000pcs/R
SMP0530	2000pcs/R	SMP1050	800pcs/R
SMP0624	1500pcs/R	SMP1250	500pcs/R
SMP0630	1500pcs/R	SMP1265	500pcs/R
SMP0655	1000pcs/R	SMP1770	300pcs/R

包装盒尺寸 Package Size



卷带包装盒

A	B	C
338	350	85



外包装箱

L1	L2	H2
373	355	280

注: 卷盘前后空格为各20pcs.
There are 20 spaces before and after the reel.