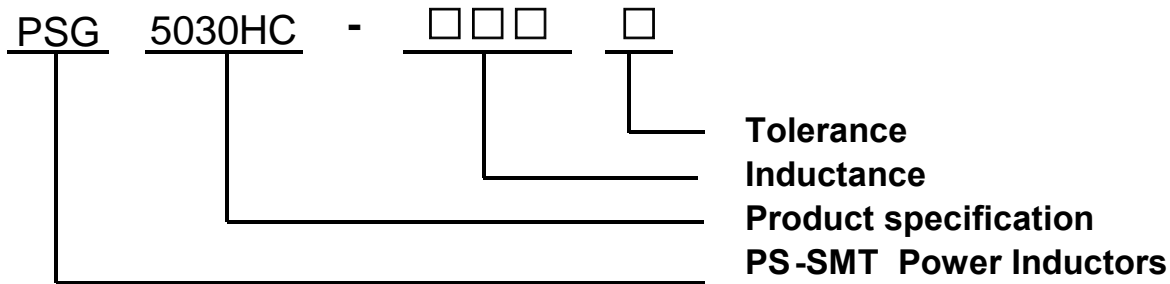


SMT Power Inductors- PSG5030HC

产品型号

PRODUCT IDENTIFICATION



Tolerance:

Code	Tolerance
102	1.0μH
103	10.0μH
104	100.0μH
105	1000.0μH
106	10000.0μH

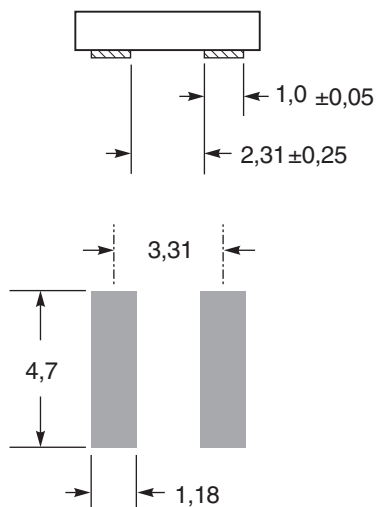
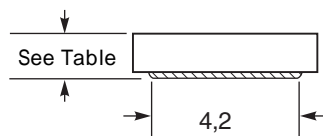
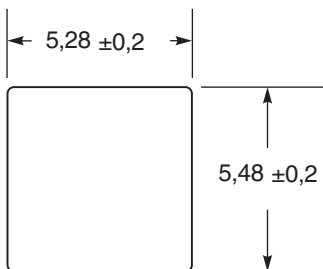
Inductance:

Code	Tolerance
J	±5%
K	±10%
L	±15%
M	±20%
N	±30%

外观尺寸

SHAPE AND DIMENSIONS

单位 : mm



推荐焊盘

型号	最大高度
-181	3.2
-351	3.2
-401	3.2
-521	3.2
-601	3.2
-651	3.2
-821	3.2
-901	3.1
-102	3.1
-122	3.1
-152	3.1
-182	3.1
-222	3.1
-332	3.1
-472	3.1
-562	3.1
-682	3.1
-822	3.1
-103	3.1
-123	3.1
-153	3.1
-183	3.1
-223	3.1



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SMT Power Inductors- PSG5030HC

规格特性

SPECIFICATIONS

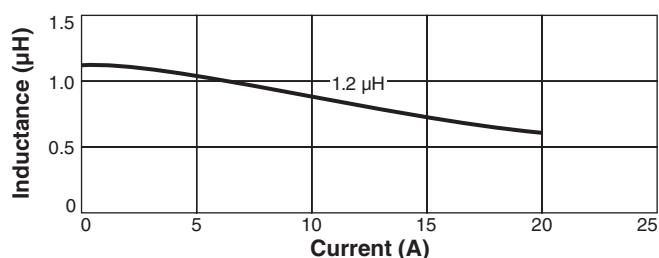
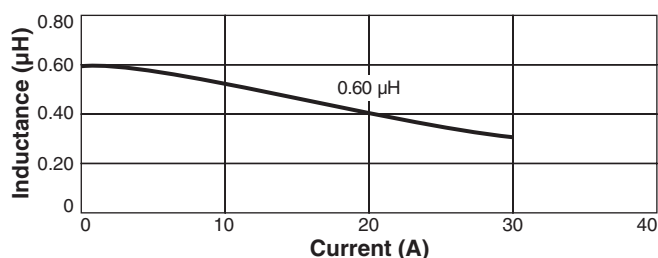
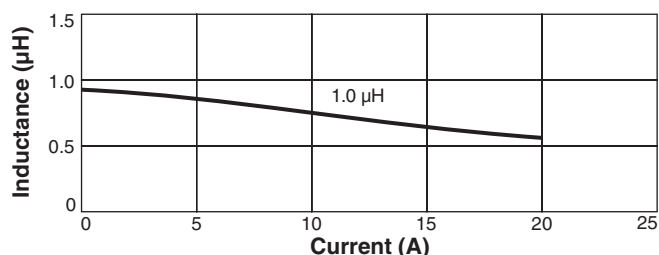
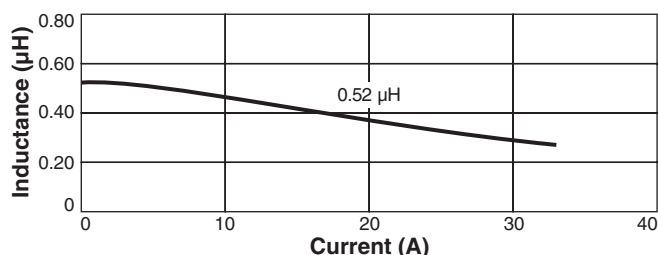
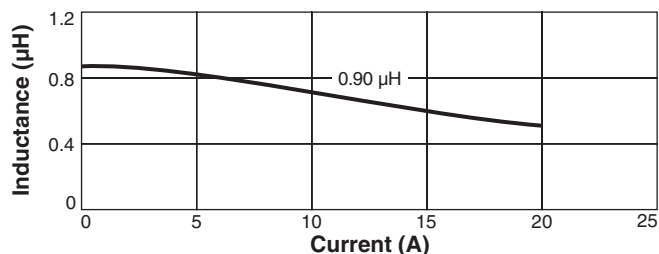
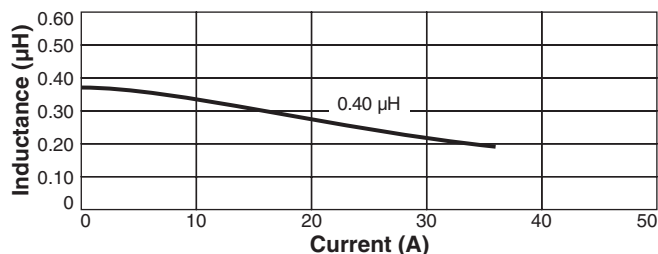
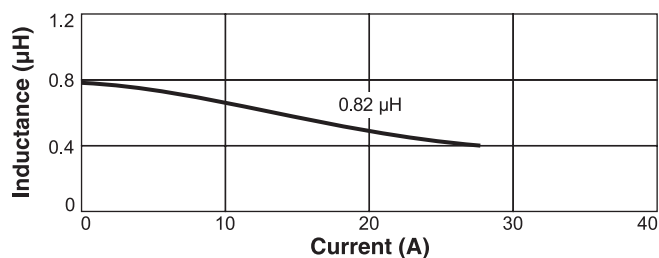
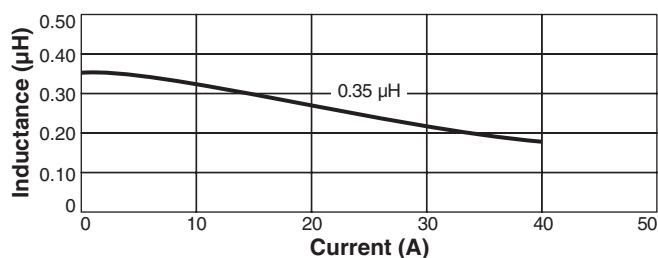
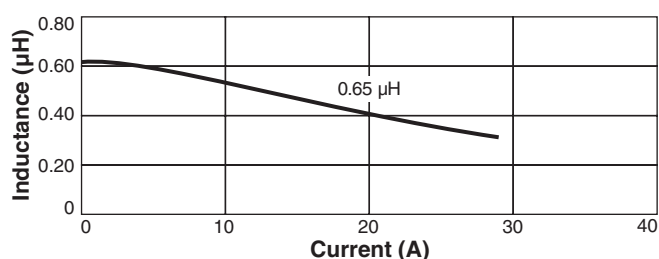
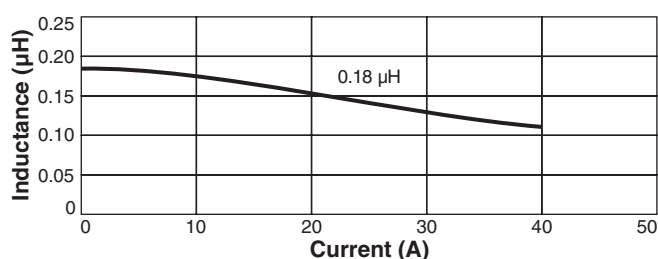
Part number	Inductance (uH)	Percent tolerance	DCR max (mOhms)	SRF typ (MHz)	Isat (A)	Irms(A)	
						20°C rise	40°C rise
PSG5030HC-181M	0.18 @ 1MHZ	20	1.6	160	30.0	24.4	31.8
PSG5030HC-351M	0.35 @ 1MHZ	20	2.2	100	24.5	22.8	30.6
PSG5030HC-401M	0.40 @ 1MHZ	20	2.7	88	23.0	19.3	25.1
PSG5030HC-521M	0.52 @ 1MHZ	20	3.0	80	20.5	18.9	25.0
PSG5030HC-601M	0.60 @ 1MHZ	20	3.2	75	18.7	17.6	23.0
PSG5030HC-651M	0.65 @ 1MHZ	20	4.0	68	17.9	15.7	21.2
PSG5030HC-821M	0.82 @ 1MHZ	20	4.6	56	16.7	15.3	21.1
PSG5030HC-901M	0.90 @ 1MHZ	20	5.2	54	14.5	14.4	19.7
PSG5030HC-102M	1.00 @ 1MHZ	20	5.8	52	14.0	12.8	17.8
PSG5030HC-122M	1.2 @ 1MHZ	20	6.0	47	13.0	12.3	16.8
PSG5030HC-152M	1.5 @ 1MHZ	20	7.9	43	12.2	11.6	15.4
PSG5030HC-182M	1.8 @ 1MHZ	20	8.7	37	10.6	10.3	14.1
PSG5030HC-222M	2.2 @ 1MHZ	20	10.6	34	9.4	9.6	12.9
PSG5030HC-332M	3.3 @ 1MHZ	20	14.9	28	8.4	7.2	10.0
PSG5030HC-472M	4.7 @ 1MHZ	20	24.5	23	6.7	6.3	8.5
PSG5030HC-562M	5.6 @ 1MHZ	20	27.0	21	6.0	5.9	7.9
PSG5030HC-682M	6.8 @ 1MHZ	20	32.1	18	5.5	5.4	7.3
PSG5030HC-822M	8.2 @ 1MHZ	20	41.0	17	5.0	4.8	6.4
PSG5030HC-103M	10 @ 1MHZ	20	48.4	15	4.5	4.3	5.7
PSG5030HC-123M	12 @ 1MHZ	20	56.5	14	4.0	4.0	5.4
PSG5030HC-153M	15 @ 1MHZ	20	77.1	12	3.6	3.4	4.5
PSG5030HC-183M	18 @ 1MHZ	20	97.7	11	3.3	2.9	4.0
PSG5030HC-223M	22 @ 1MHZ	20	118.8	10	3.0	2.6	3.6

SMT Power Inductors- PSG5030HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current

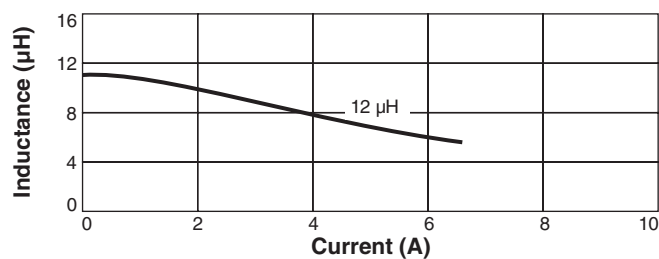
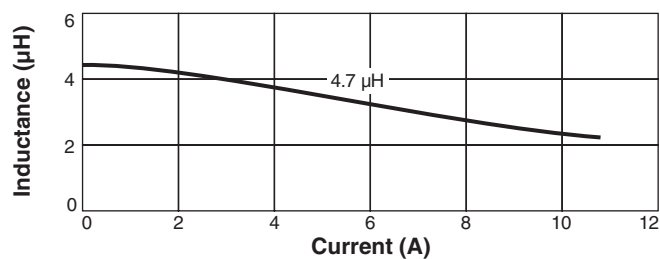
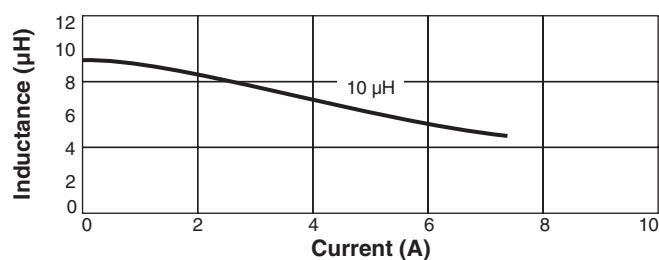
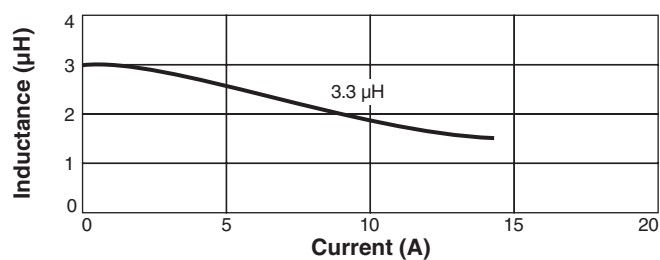
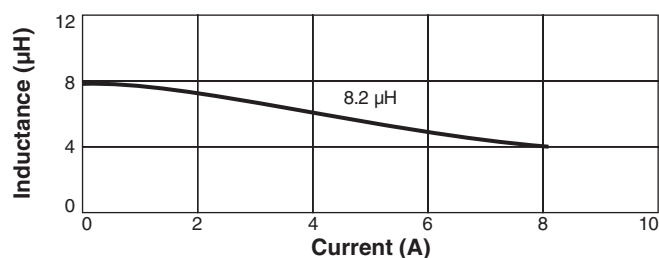
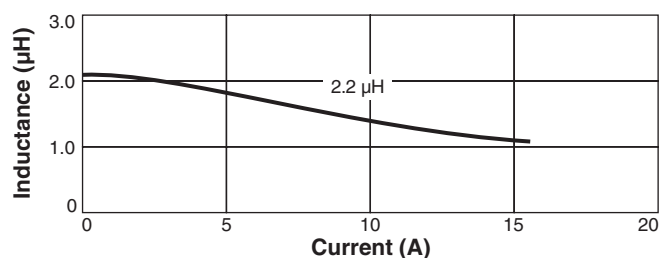
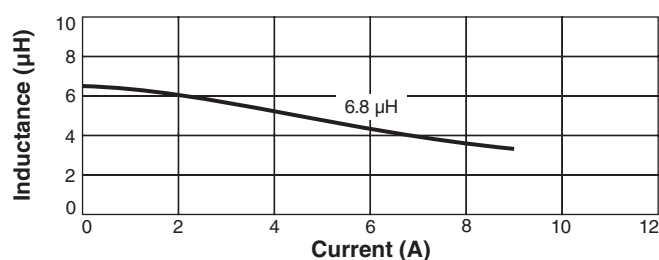
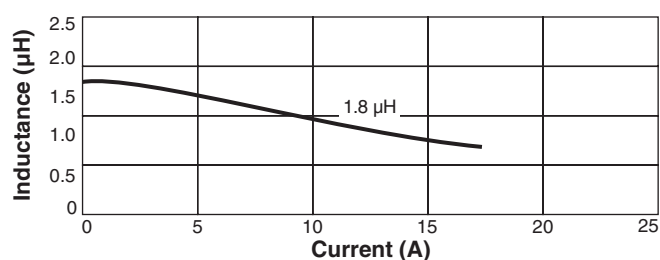
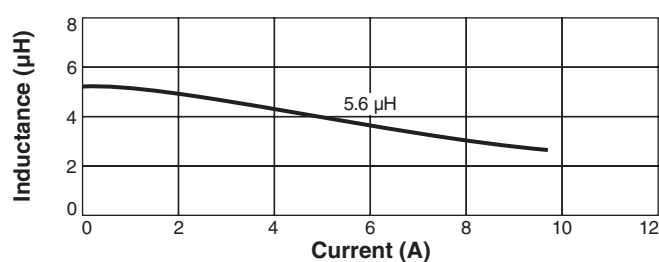
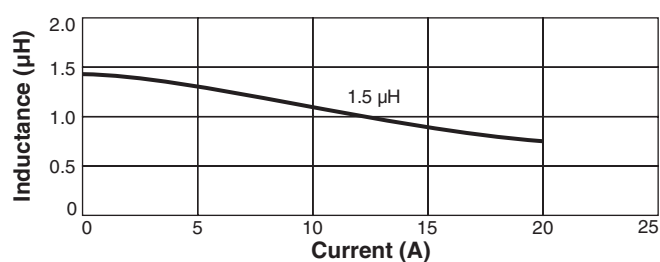


SMT Power Inductors- PSG5030HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current





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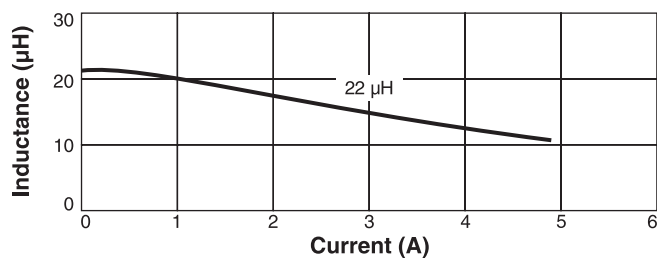
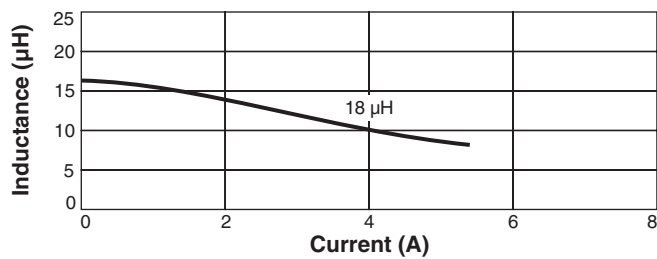
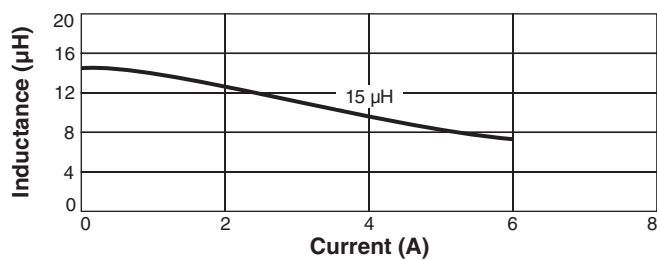
Email: xy@frcoil.com

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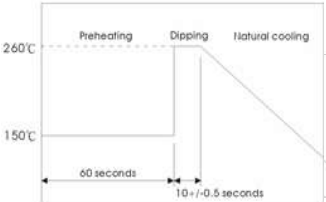
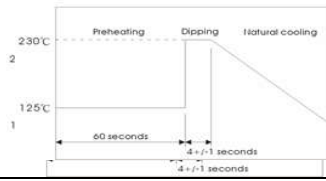
电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

PASSED MEASUREMENT / 通过如下测量

ITEM	Test condition	Test Result
Operating Temperature 操作温度	-40℃ ~ +125℃	5Pcs Passed
Storage temperature 储存温度	-55℃ ~ 125℃	5Pcs Passed
Rated Current 额定电流	Refer to standard electrical characteristics list 参考标准特性规格表	5Pcs Passed
Temperature Rise Test 温升测试	40℃ max.(Δt) 40度最大	5Pcs Passed

Electrical Performance Test

Solder Heat Resistance 耐焊锡热	Appearance: No significant abnormality. Inductance change: Within $\pm 20\%$. 外观: 无显著异常。 电感值: 变异性在初始值 $\pm 20\%$ 以内。	Preheat: 150℃, 60sec. Solder: H63A Solder temperature: 260 ± 5 ℃ Flux for lead free: rosin Dip time: 10 ± 0.5 sec. 预热: 150℃, 60sec. 锡炉温度: 260 ± 5 ℃. 时间: 10 ± 0.5 sec 助焊剂: rosin. 
Solderability Test 端面焊锡性	More than 90% of the terminal electrode. Should be covered with solder. 端子电极之锡覆盖面达90%以上。	Preheat: 125 ± 25 ℃, 60sec. Solder: H63A. Solder temperature: 230 ± 5 ℃ Flux for lead free: rosin Dip time: 4 ± 1 sec. 预热: 125 ± 25 ℃, 60sec. 锡炉温度: 230 ± 5 ℃ 时间: 4 ± 1 sec. 助焊剂: rosin. 
High Temperature Resistance Test 高温放置测试	Appearance: no damage. Inductance: within $\pm 20\%$ of initial value NO disconnection or short circuit. 外观不能破损。 电感值: 变异值在初始值20%以内。 电性无短路或断线。	Temperature: 85 ± 5 ℃. Applied current: rated current. Duration: 500 hrs.



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电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

ITEM	Test condition	Test Result
Humidity Resistance Test 高温放置测试	Appearance:no damage. Inductance:within $\pm 20\%$ of initial value NO disconnection or short circuit. 外观不能破损。 电感值: 变异值在初始值20%以内。 电性无短路或断线。	Temperature: $40\pm 2^{\circ}\text{C}$. Applied current:rated current. Duration:500 hrs. Humidity:90~95%.
Thermal shock 热冲击试验	Appearance:no damage. Inductance:within $\pm 20\%$ of initial value NO disconnection or short circuit. 外观不能破损。 电感值: 变异值在初始值20%以内。 电性无短路或断线。	Condition for 1 cycle Step 1:- $25\pm 2^{\circ}\text{C}$,30 ± 3 min. Step 2:Room temperature within 15 min. Step 3:+ $85\pm 5^{\circ}\text{C}$,30 ± 3 min. Step 4: Room temperature within 15 min. Number of cycles 50
Humidity Resistance 高湿测试	Appearance:no damage. Inductance:within $\pm 20\%$ of initial value NO disconnection or short circuit. 外观不能破损。 电感值: 变异值在初始值20%以内。 电性无短路或断线	Humidity 90~95%RH. Temperature: $40\pm 5^{\circ}\text{C}$. Applied current:rated current. Duration:500 ± 12 hrs. Measured at room temperature after placing for 2 to 3hrs. 湿度: 90~95%RH. 温度: $40\pm 5^{\circ}\text{C}$. 须加电流: 额定电流。 放置时间: 500 ± 12 hrs. 测试结束于室温放置2~3小时, 始可测试电气特性。