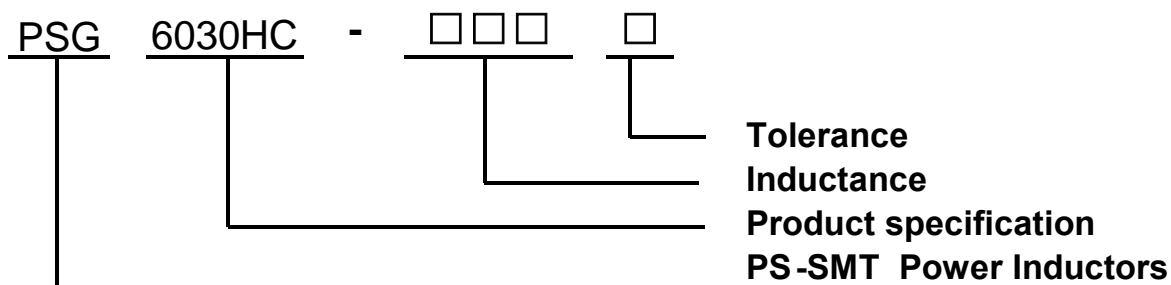


SMT Power Inductors- PSG6030HC

产品型号

PRODUCT IDENTIFICATION



Tolerance:

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

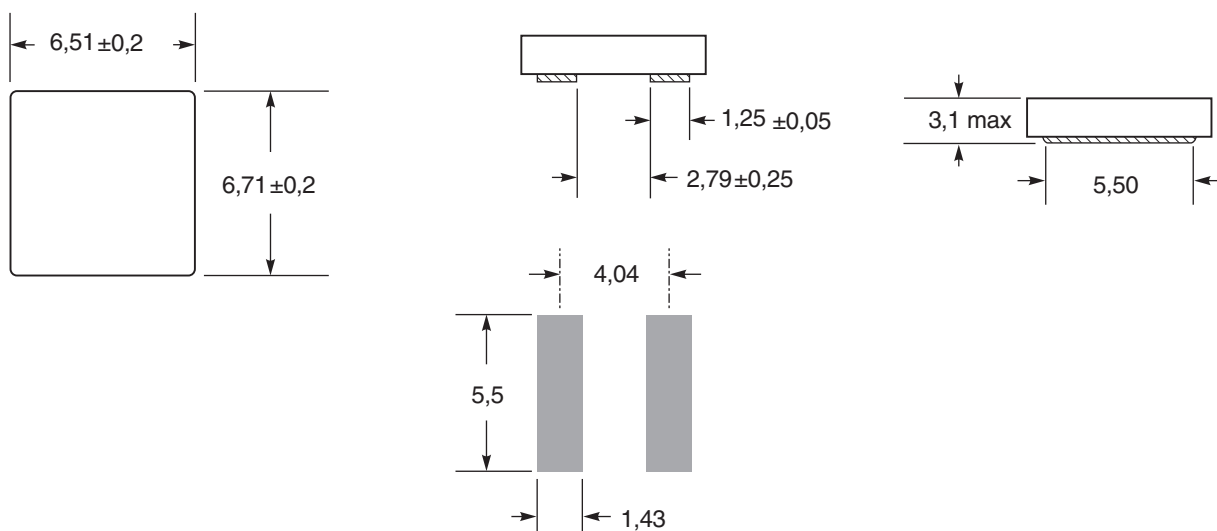
Inductance:

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



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Email: xy@frcoil.com

SMT Power Inductors- PSG6030HC

规格特性

SPECIFICATIONS

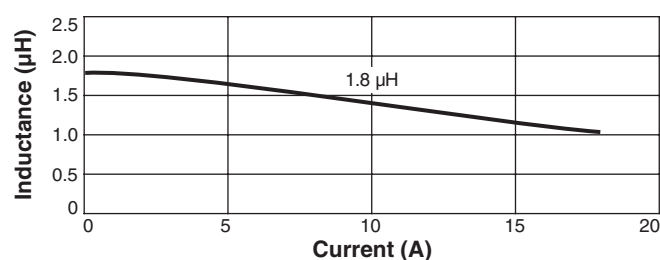
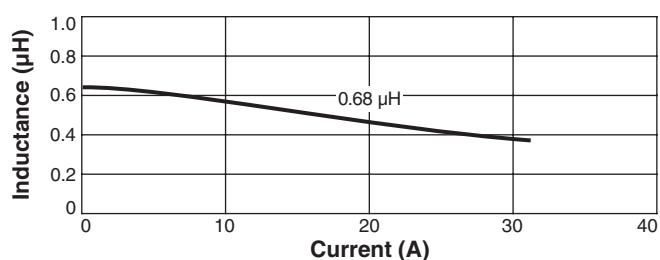
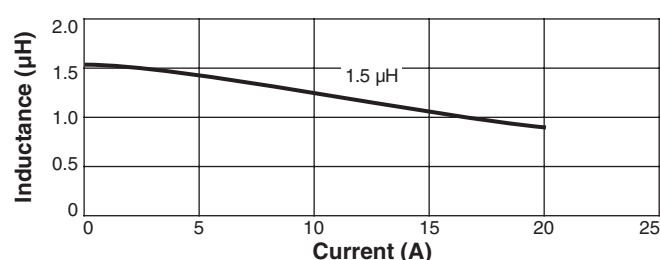
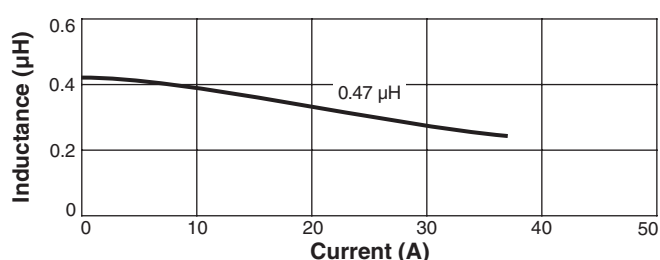
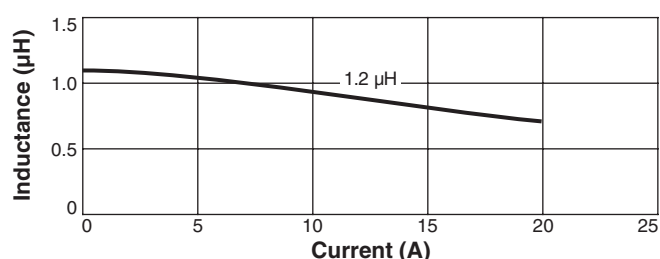
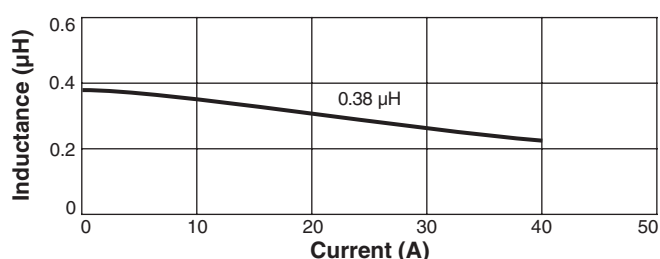
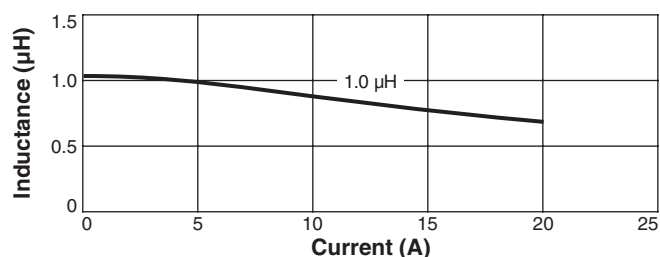
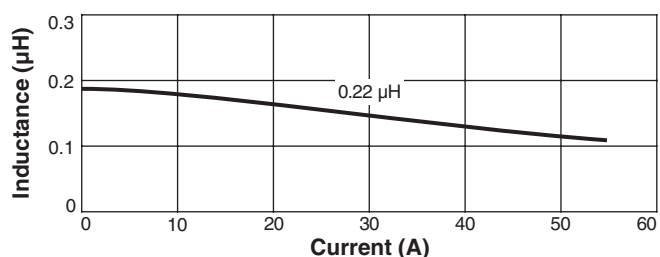
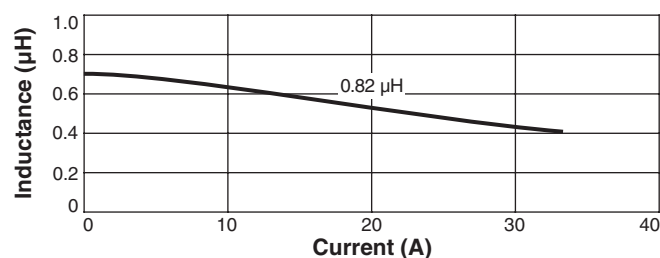
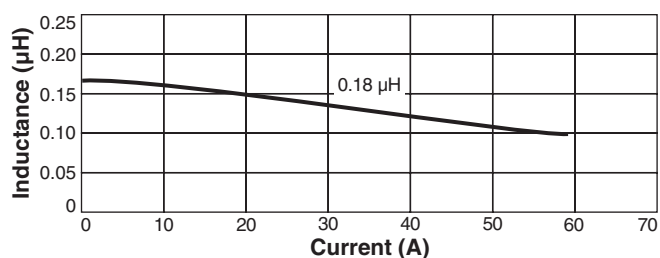
Part number	Inductance (uH)	Percent tolerance	DCR max (mOhms)	SRF typ (MHz)	Isat (A)	Irms(A)	
						20°C rise	40°C rise
PSG6030HC-181M	0.18 @ 1MHZ	20	1.2	140	43.0	25.3	34.7
PSG6030HC-221M	0.22 @ 1MHZ	20	1.5	130	39.0	23.0	32.0
PSG6030HC-381M	0.38 @ 1MHZ	20	2.4	72	29.0	19.8	28.0
PSG6030HC-471M	0.47 @ 1MHZ	20	2.7	66	26.5	18.1	25.0
PSG6030HC-681M	0.68 @ 1MHZ	20	3.5	52	22.0	15.8	22.5
PSG6030HC-821M	0.82 @ 1MHZ	20	4.0	50	21.0	14.9	21.0
PSG6030HC-102M	1.0 @ 1MHZ	20	4.9	42	17.7	13.0	18.1
PSG6030HC-122M	1.2 @ 1MHZ	20	5.4	42	17.3	12.0	16.5
PSG6030HC-152M	1.5 @ 1MHZ	20	7.3	35	14.5	10.4	15.0
PSG6030HC-182M	1.8 @ 1MHZ	20	8.9	33	13.0	9.5	13.0
PSG6030HC-222M	2.2 @ 1MHZ	20	10.3	28	12.2	8.5	12.0
PSG6030HC-332M	3.2 @ 1MHZ	20	15.4	25	10.4	7.6	10.5
PSG6030HC-472M	4.7 @ 1MHZ	20	21.0	19	8.6	7.2	10.0
PSG6030HC-562M	5.6 @ 1MHZ	20	24.1	18	8.2	6.5	8.8
PSG6030HC-682M	6.8 @ 1MHZ	20	29.5	16	7.3	6.0	8.2
PSG6030HC-822M	8.2 @ 1MHZ	20	40.0	14	6.5	5.1	7.1
PSG6030HC-103M	10 @ 1MHZ	20	44.0	13	6.2	5.0	7.0
PSG6030HC-123M	12 @ 1MHZ	20	53.0	12	5.5	4.4	6.0
PSG6030HC-153M	15 @ 1MHZ	20	72.0	10	4.6	3.9	5.2
PSG6030HC-183M	18 @ 1MHZ	20	80.0	9.5	4.4	3.4	4.7

SMT Power Inductors- PSG6030HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current

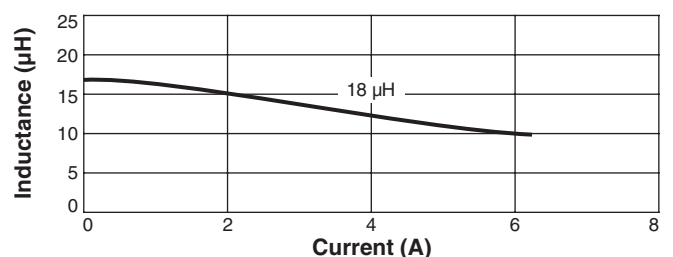
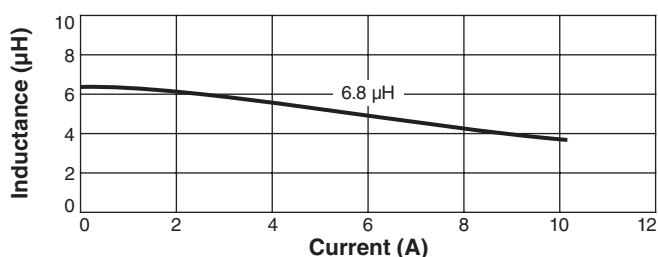
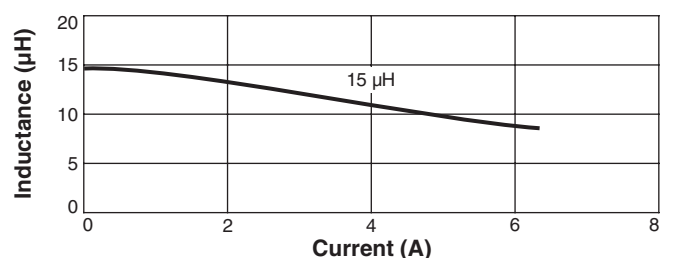
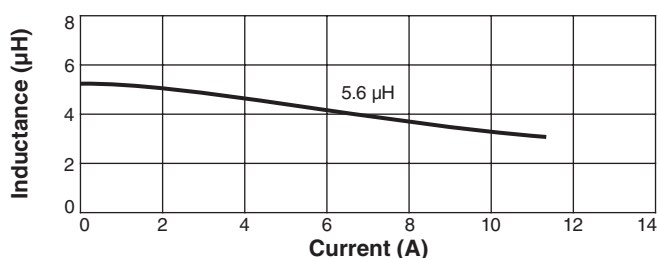
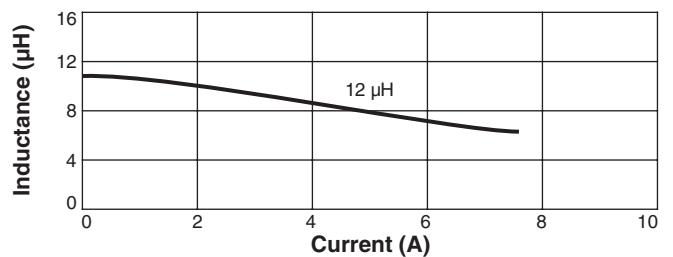
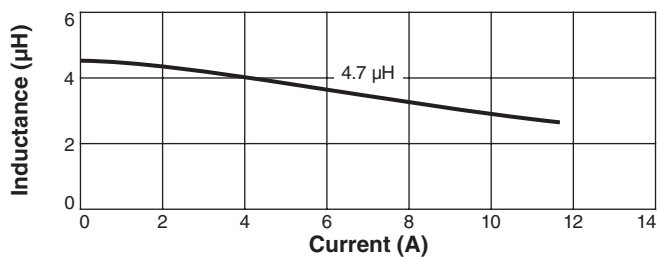
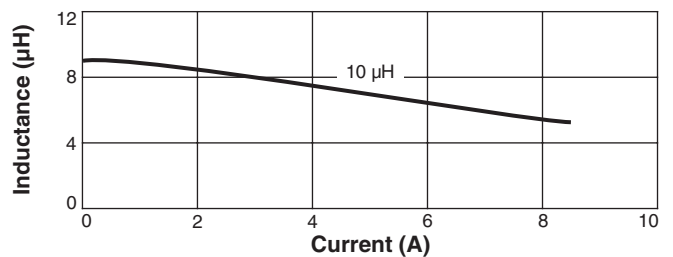
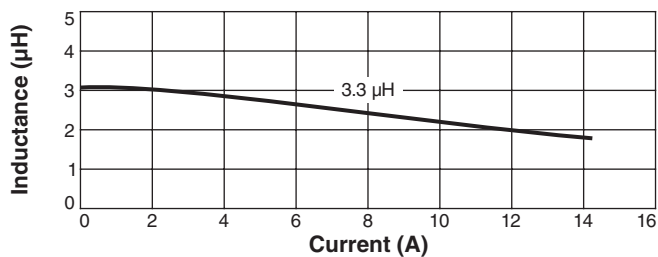
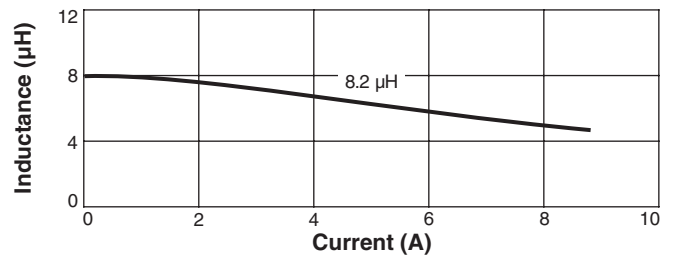
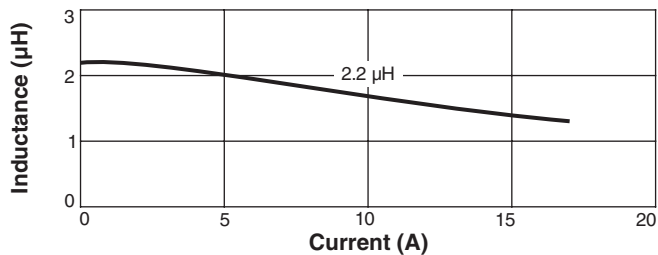


SMT Power Inductors- PSG6030HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current





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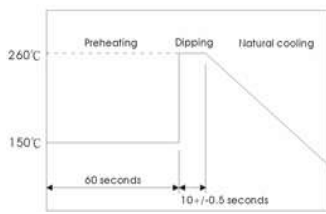
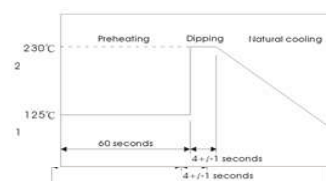
电气特性

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 ±20%. 外观: 无显著异常。 电感值: 变异性在初始值±20%以内。	Preheat: 150℃, 60sec. Solder: H63A Solder temperature: 260±5℃ Flux for lead free: rosin Dip time: 10±0.5sec. 预热: 150℃, 60sec. 锡炉温度: 260±5℃. 时间: 10±0.5sec 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±1sec. 预热: 125±25℃, 60sec. 锡炉温度: 230±5℃ 时间: 4±1sec. 助焊剂: rosin. 
High Temperature Resistance Test 高温放置测试	Appearance: no damage. Inductance: within ±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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SMT Power Inductors- PSG6030HC

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。