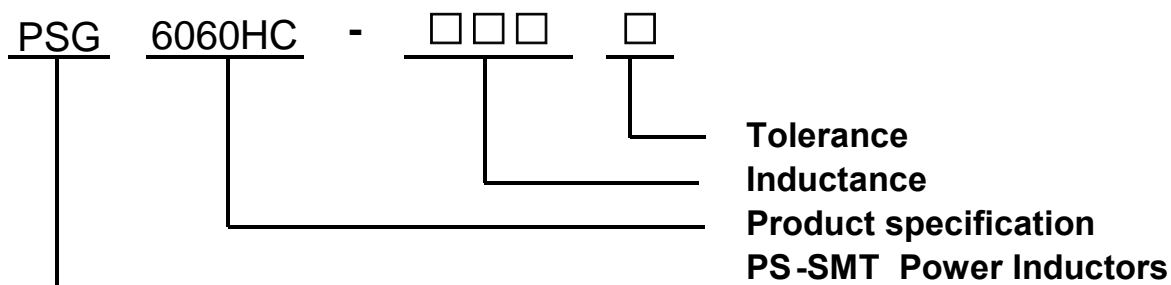


SMT Power Inductors- PSG6060HC

产品型号

PRODUCT IDENTIFICATION



Tolerance:

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

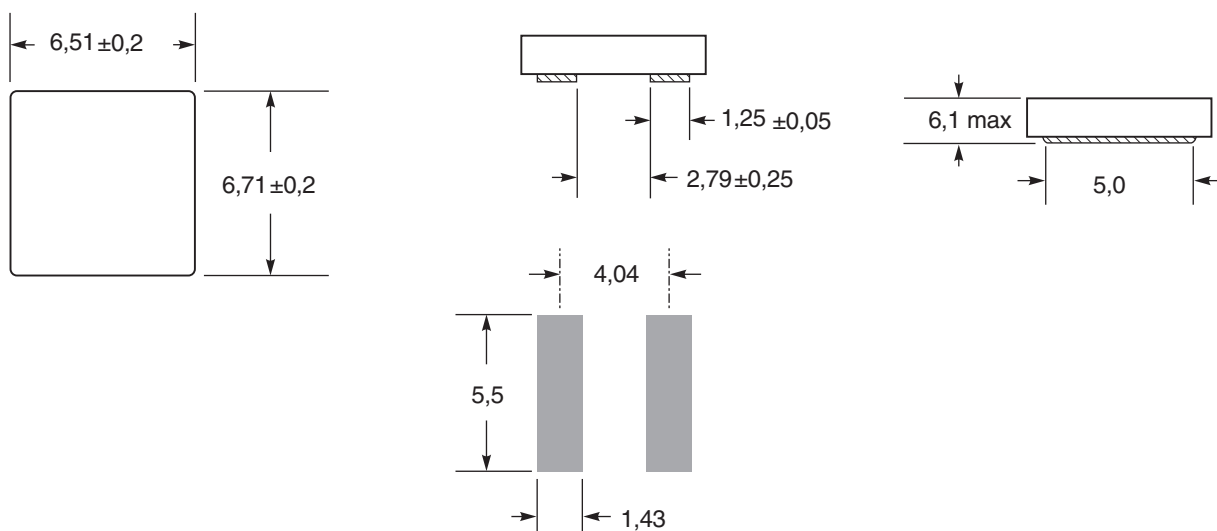
Inductance:

Code	Tolerance
J	$\pm 5\%$
K	$\pm 10\%$
L	$\pm 15\%$
M	$\pm 20\%$
N	$\pm 30\%$

外观尺寸

SHAPE AND DIMENSIONS

单位 : mm



推荐焊盘



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SMT Power Inductors- PSG6060HC

规格特性

SPECIFICATIONS

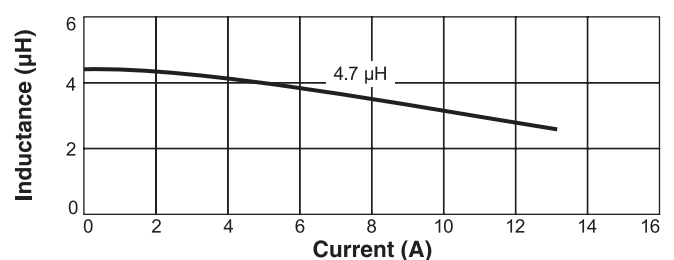
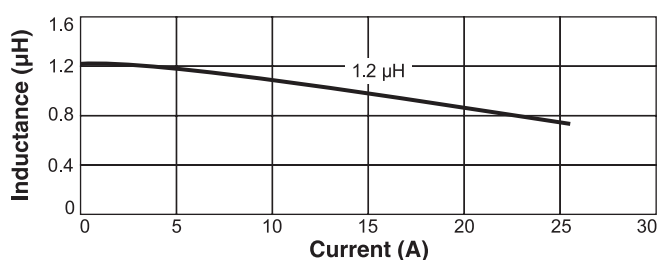
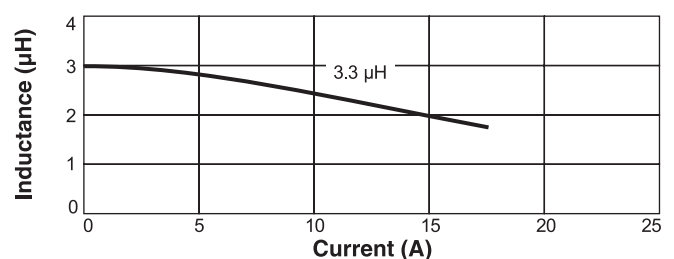
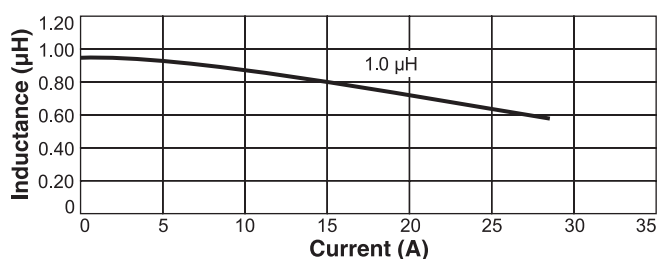
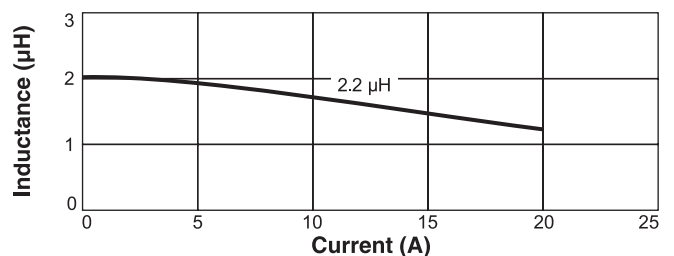
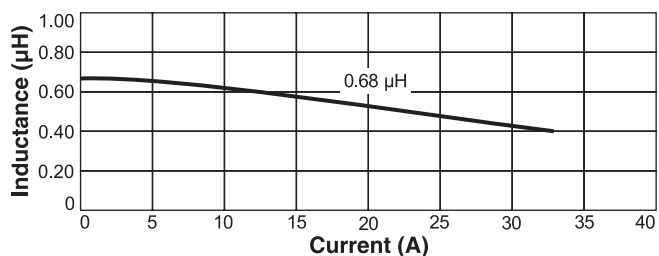
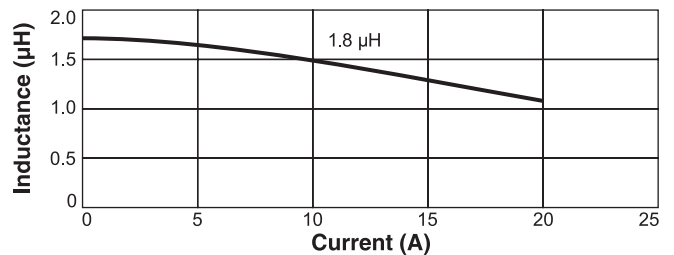
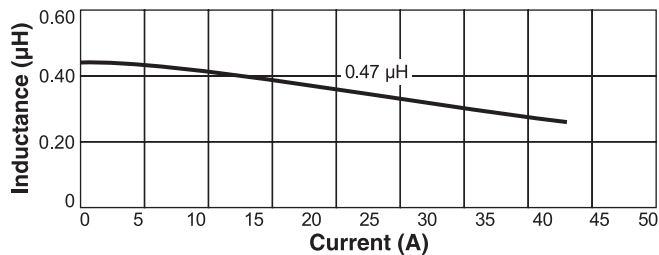
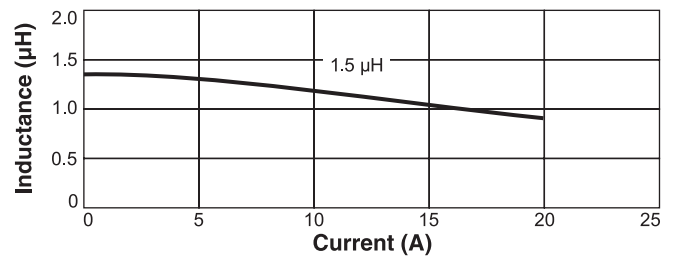
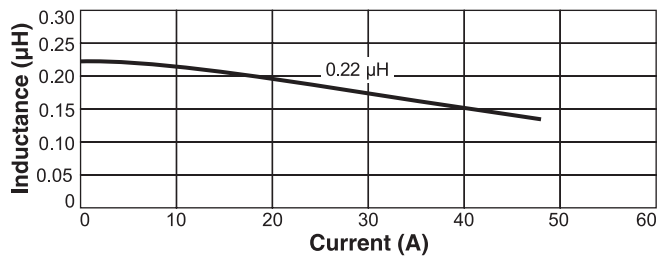
Part number	Inductance (uH)	Percent tolerance	DCR max (mOhms)	SRF typ (MHz)	Isat (A)	Irms(A)	
						20°C rise	40°C rise
PSG6060HC-221M	0.22 @ 1MHZ	20	1.3	125	38.0	22.0	29.0
PSG6060HC-471M	0.47 @ 1MHZ	20	1.8	75	29.5	20.0	26.0
PSG6060HC-681M	0.68 @ 1MHZ	20	2.3	60	26.5	17.4	22.7
PSG6060HC-102M	1.0 @ 1MHZ	20	2.9	46	23.0	16.4	22.0
PSG6060HC-122M	1.2 @ 1MHZ	20	3.4	41	20.5	16.0	21.5
PSG6060HC-152M	1.5 @ 1MHZ	20	3.8	41	18.3	15.3	20.2
PSG6060HC-182M	1.8 @ 1MHZ	20	4.3	35	16.9	14.6	19.7
PSG6060HC-222M	2.2 @ 1MHZ	20	4.8	30	16.0	12.5	17.2
PSG6060HC-332M	3.3 @ 1MHZ	20	6.5	24	13.4	12.1	16.6
PSG6060HC-472M	4.7 @ 1MHZ	20	10.1	19	10.2	9.8	13.5
PSG6060HC-562M	5.6 @ 1MHZ	20	11.7	17	9.6	9.1	12.6
PSG6060HC-682M	6.8 @ 1MHZ	20	14.0	16	8.9	8.5	11.5
PSG6060HC-822M	8.2 @ 1MHZ	20	16.8	14	8.1	7.4	10.1
PSG6060HC-103M	10 @ 1MHZ	20	20.4	14	7.3	6.6	9.1
PSG6060HC-123M	12 @ 1MHZ	20	24.2	13	6.7	6.1	8.3
PSG6060HC-153M	15 @ 1MHZ	20	31.1	11	5.8	5.4	7.4
PSG6060HC-183M	18 @ 1MHZ	20	37.3	10	5.5	4.7	6.4
PSG6060HC-223M	22 @ 1MHZ	20	46.9	9	5.1	4.2	5.8
PSG6060HC-333M	33 @ 1MHZ	20	69.5	7	4.0	3.6	4.9
PSG6060HC-473M	47 @ 1MHZ	20	107.0	6	3.2	2.7	3.7

SMT Power Inductors- PSG6060HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current





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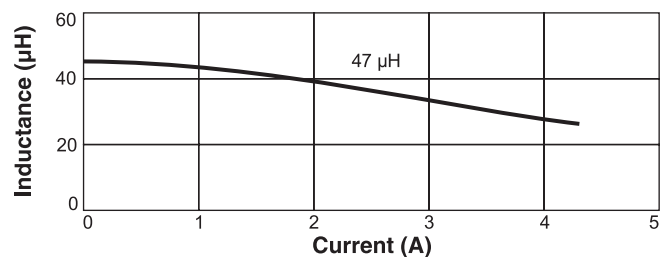
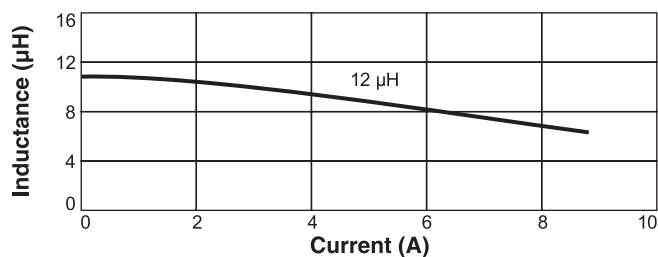
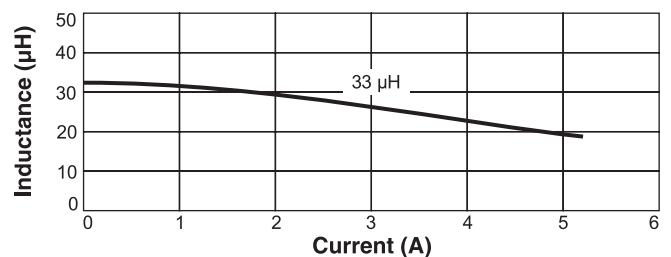
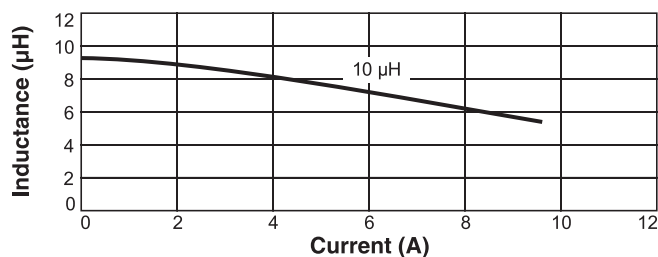
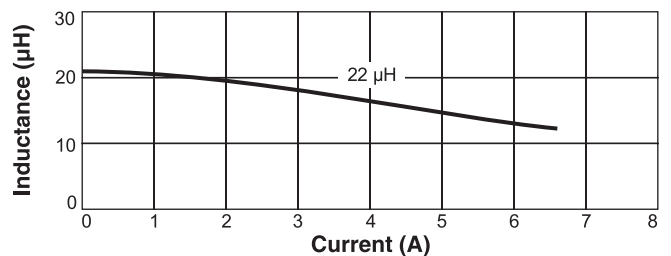
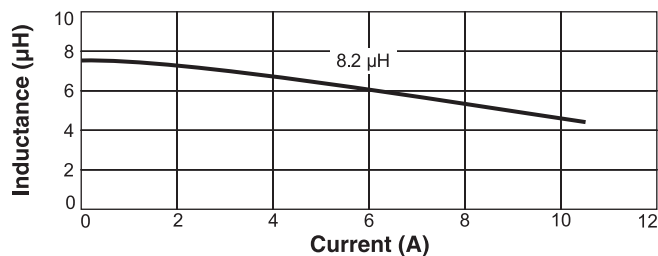
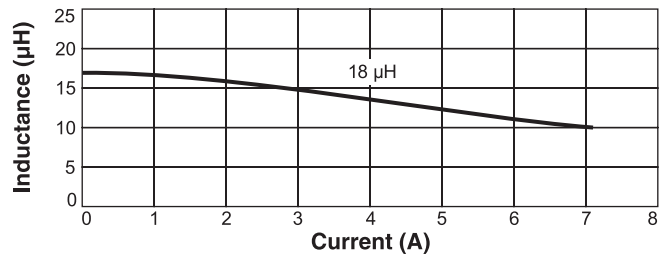
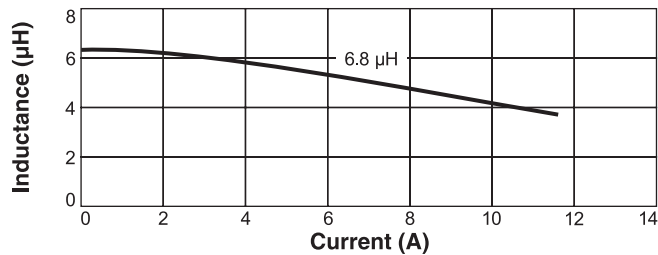
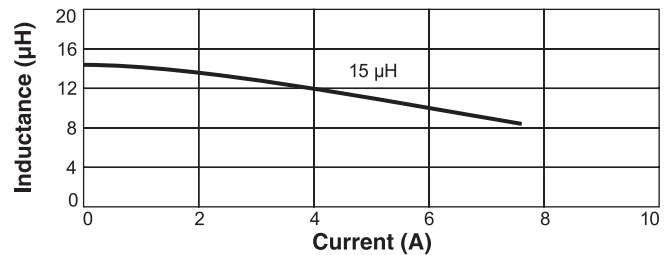
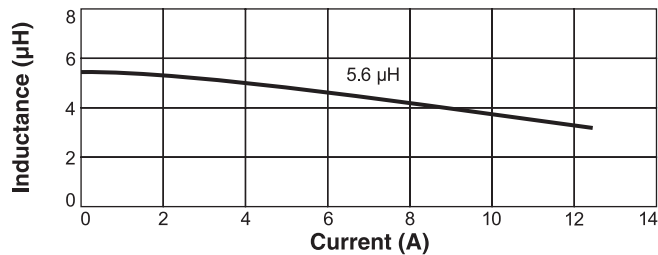
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SMT Power Inductors- PSG6060HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current





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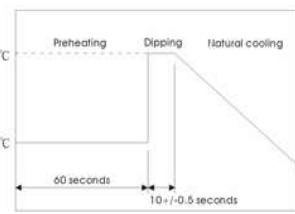
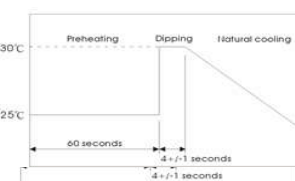
电气特性

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- PSG6060HC

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。