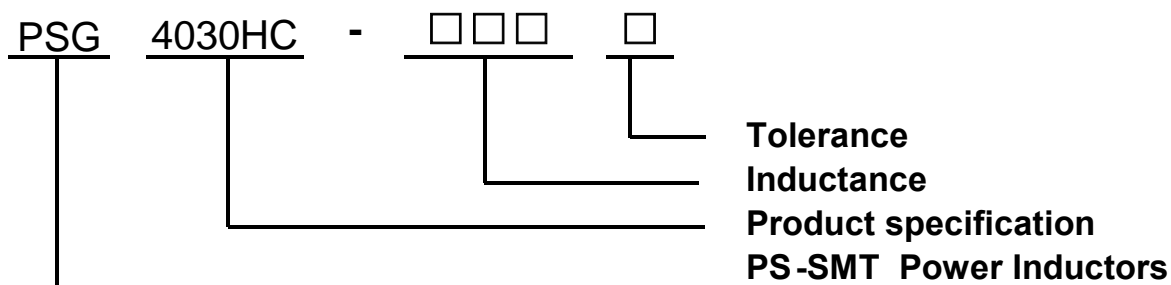


SMT Power Inductors- PSG4030HC

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

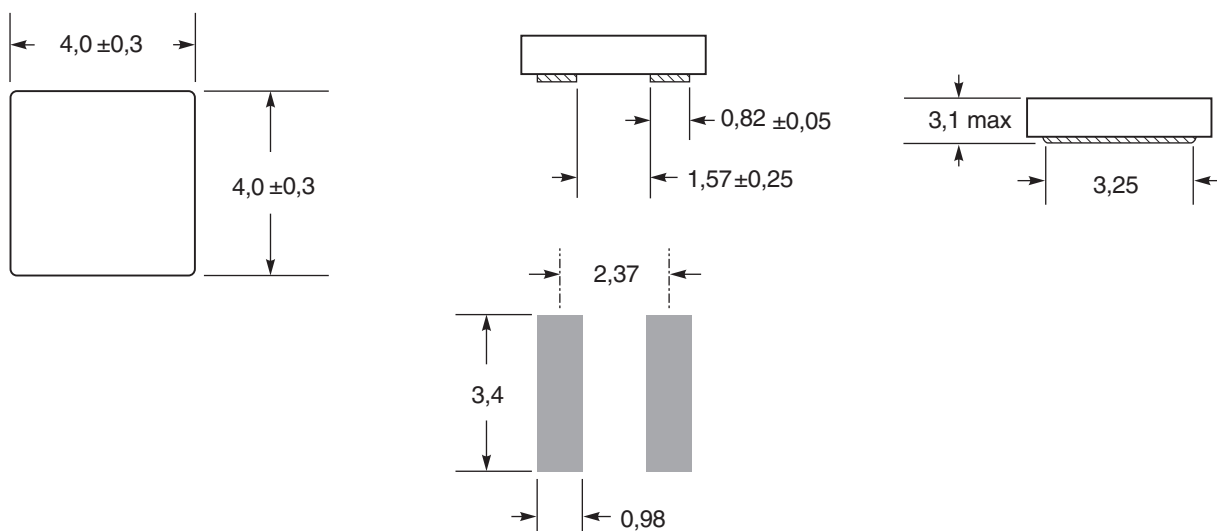
Inductance:

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- PSG4030HC

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
PSG4030HC-450M	0.045 @ 1MHZ	20	0.8	680	42.5	25.0	36.0
PSG4030HC-131M	0.13 @ 1MHZ	20	1.8	265	26.5	21.0	27.0
PSG4030HC-271M	0.27 @ 1MHZ	20	2.4	160	19.3	17.5	24.2
PSG4030HC-301M	0.30 @ 1MHZ	20	2.9	130	17.0	17.0	24.0
PSG4030HC-401M	0.40 @ 1MHZ	20	3.2	120	15.5	15.5	22.5
PSG4030HC-471M	0.47 @ 1MHZ	20	3.9	100	14.2	15.3	21.2
PSG4030HC-621M	0.62 @ 1MHZ	20	4.6	82	12.7	12.5	15.0
PSG4030HC-761M	0.76 @ 1MHZ	20	5.5	72	11.8	12.3	14.2
PSG4030HC-102M	1.0 @ 1MHZ	20	7.2	65	10.3	10.8	13.0
PSG4030HC-122M	1.2 @ 1MHZ	20	9.4	55	9.2	9.5	12.2
PSG4030HC-152M	1.5 @ 1MHZ	20	10.5	50	8.8	7.0	10.2
PSG4030HC-222M	2.2 @ 1MHZ	20	15.0	40	7.0	5.8	8.7
PSG4030HC-332M	3.3 @ 1MHZ	20	21.9	30	5.3	5.4	7.5
PSG4030HC-472M	4.7 @ 1MHZ	20	31.5	26	4.4	4.8	6.6
PSG4030HC-562M	5.6 @ 1MHZ	20	34.7	25	4.2	4.0	5.5
PSG4030HC-682M	6.8 @ 1MHZ	20	47.9	22	3.7	3.5	4.7
PSG4030HC-822M	8.2 @ 1MHZ	20	55.7	20	3.5	3.1	4.2
PSG4030HC-103M	10.0 @ 1MHZ	20	69.5	18.5	3.1	2.9	3.9
PSG4030HC-123M	12.0 @ 1MHZ	20	86.5	17	2.7	2.5	3.4



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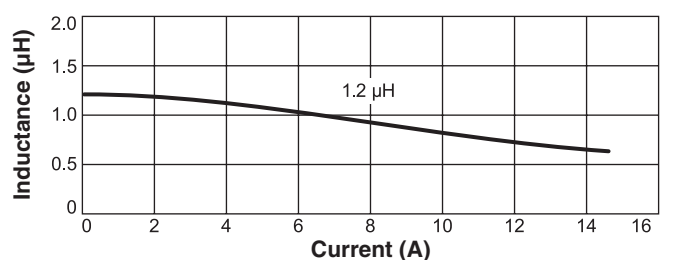
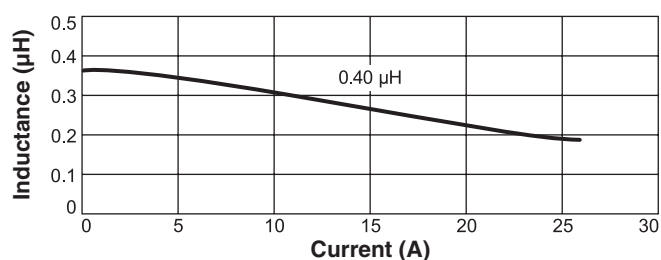
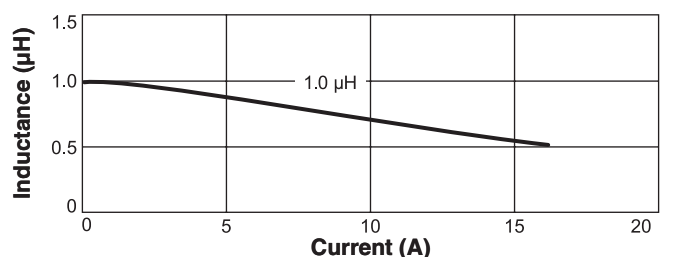
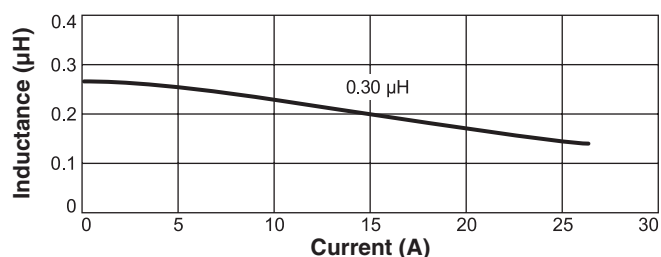
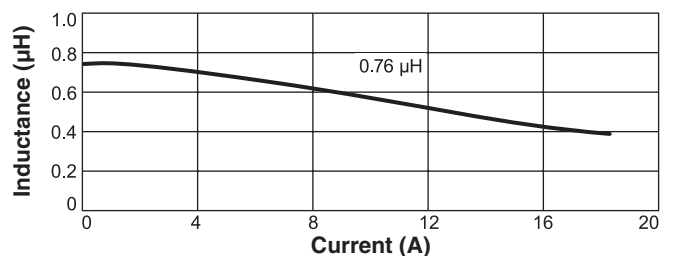
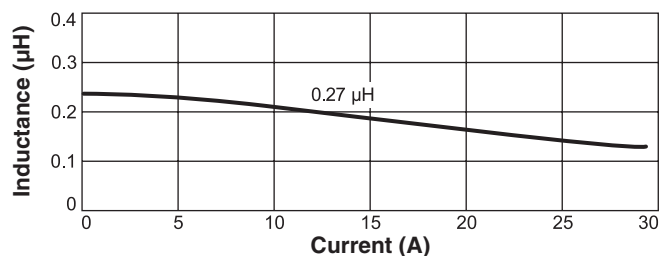
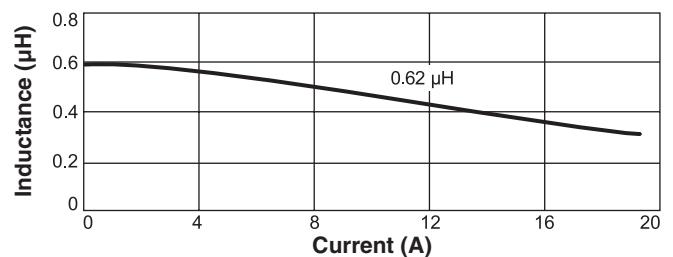
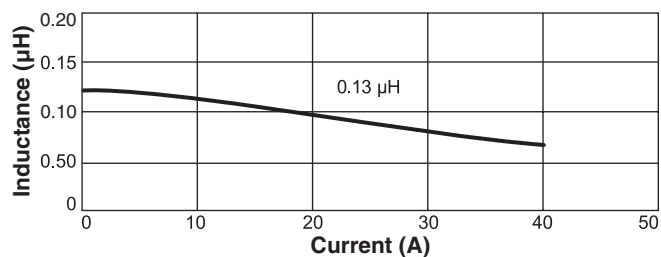
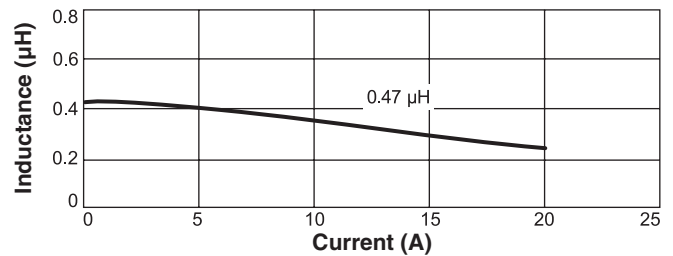
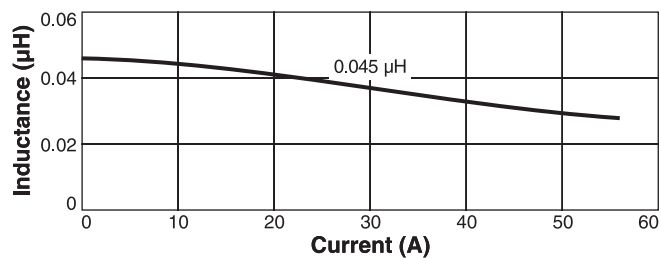
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SMT Power Inductors- PSG4030HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current

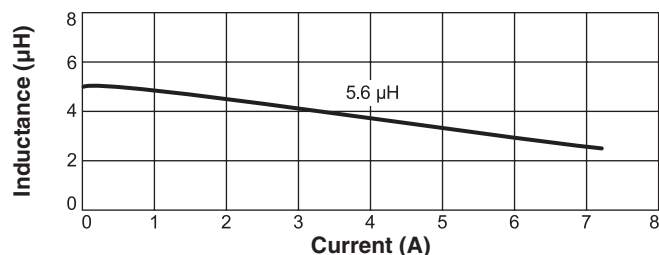
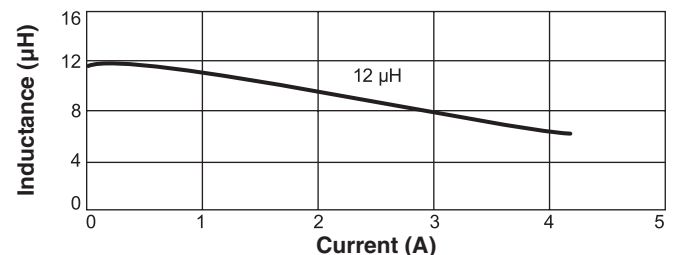
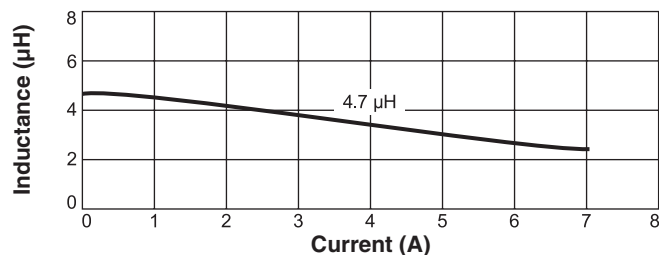
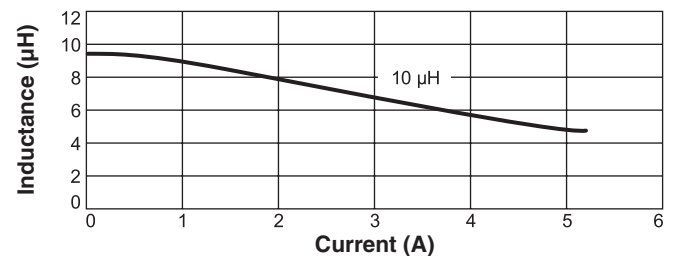
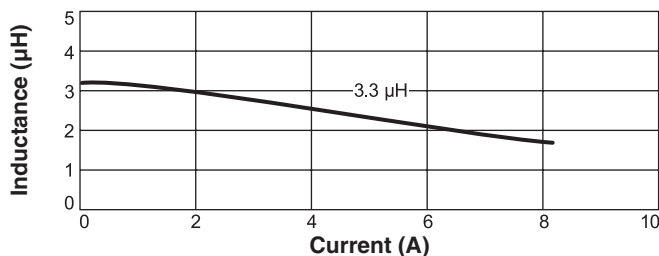
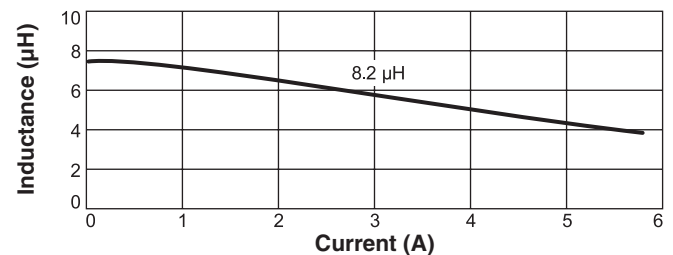
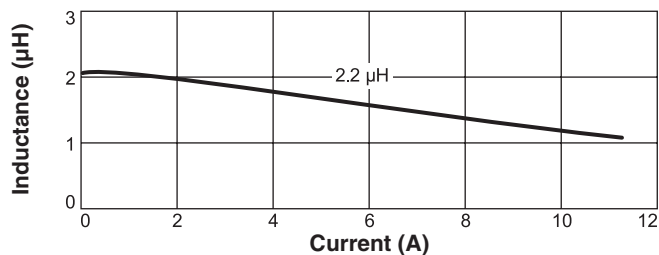
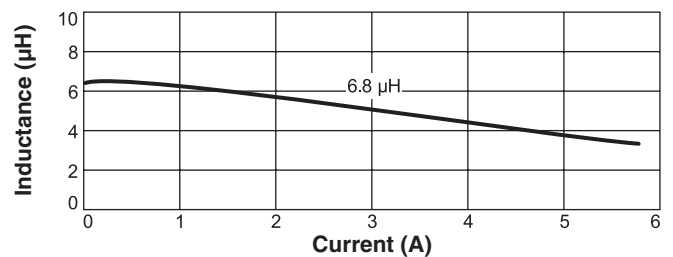
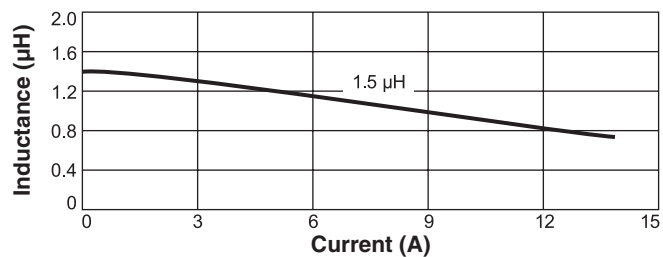


SMT Power Inductors- PSG4030HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current





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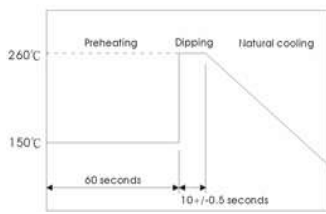
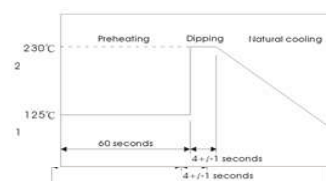
电气特性

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- PSG4030HC

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。