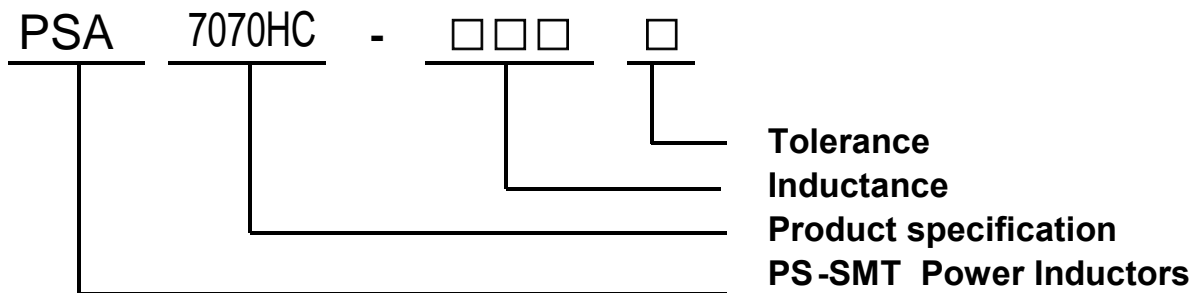


SMT Power Inductors-PSA7070HC

产品型号

PRODUCT IDENTIFICATION



Tolerance:

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

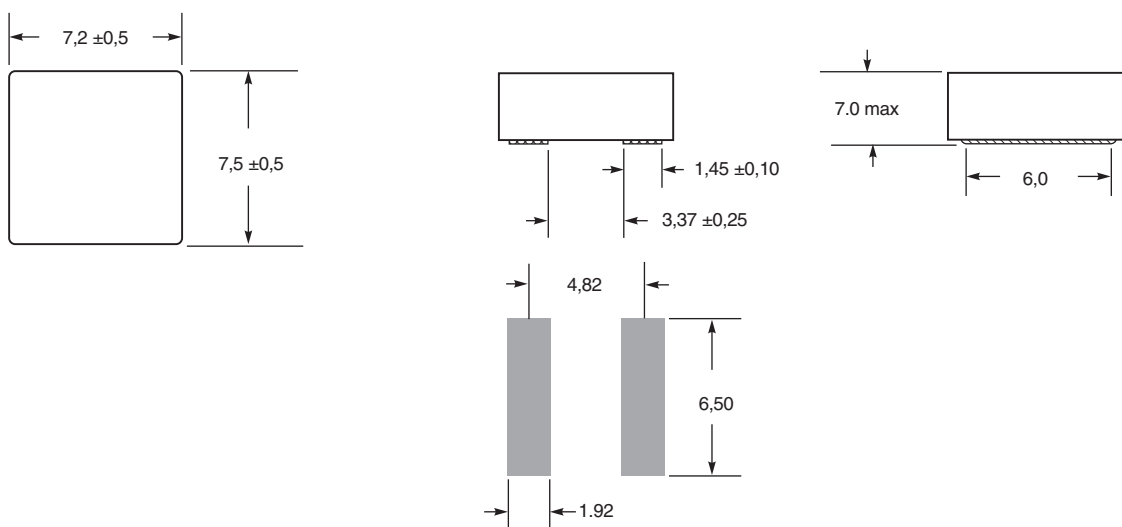
Inductance:

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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SMT Power Inductors-PSA7070HC

规格特性

SPECIFICATIONS

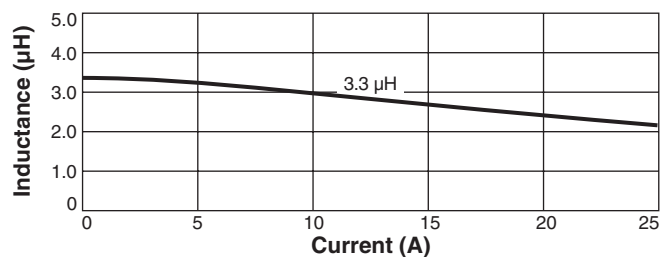
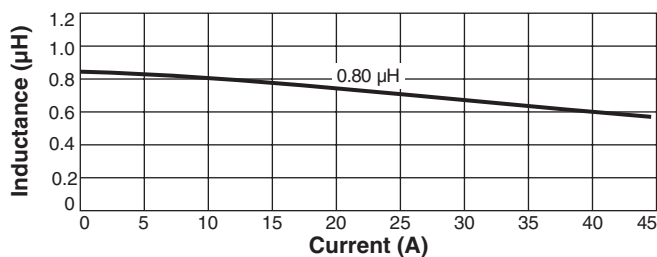
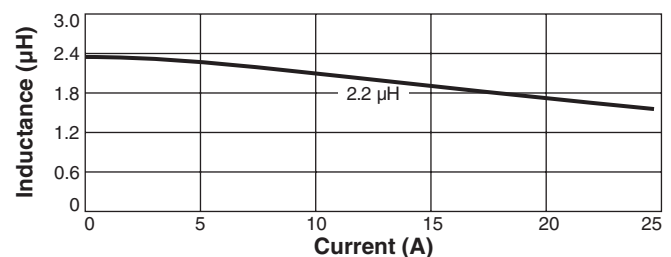
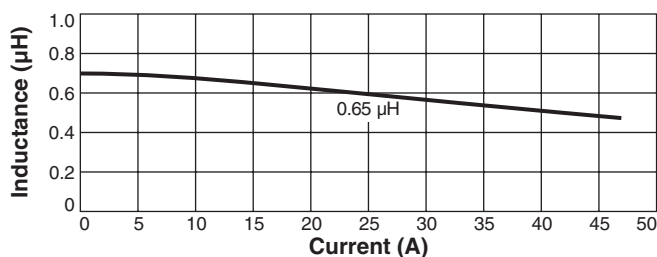
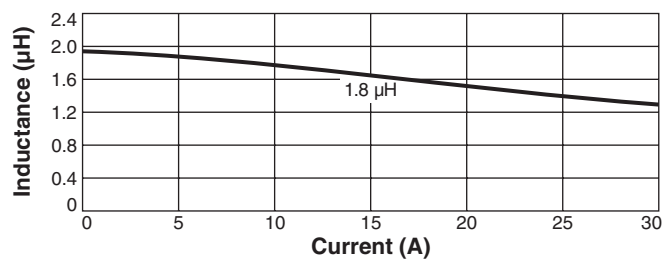
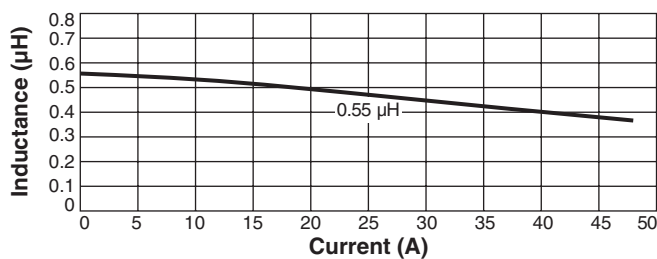
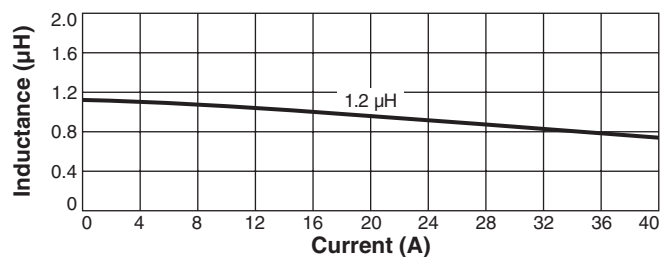
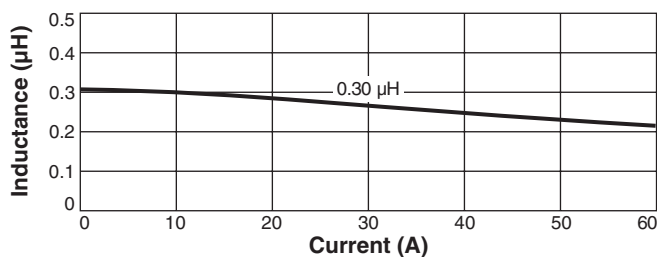
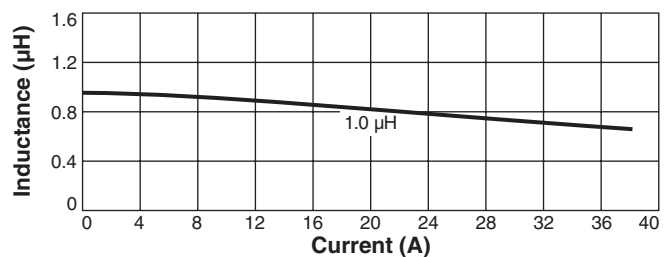
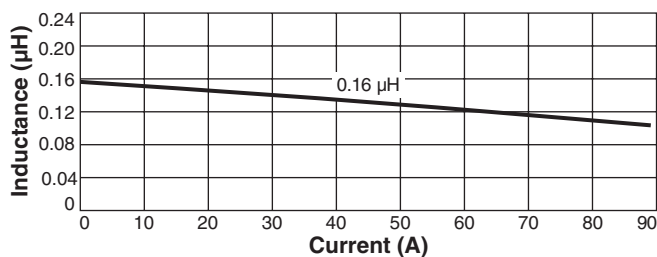
Part number	Inductance (uH)	Percent tolerance	DCR max (mOhms)	SRF typ (MHz)	Isat (A)	Irms(A)	
						20°C rise	40°C rise
PSA7070HC-161M	0.16 @ 1MHZ	20	0.83	207	78.0	30.5	36.1
PSA7070HC-301M	0.30 @ 1MHZ	20	1.17	135	55.6	26.1	33.4
PSA7070HC-551M	0.55 @ 1MHZ	20	1.56	89	43.0	23.5	29.0
PSA7070HC-651M	0.65 @ 1MHZ	20	1.93	74	40.0	21.0	26.5
PSA7070HC-801M	0.80 @ 1MHZ	20	2.29	67	37.8	20.8	25.8
PSA7070HC-102M	1.0 @ 1MHZ	20	2.81	64	34.8	20.0	25.0
PSA7070HC-122M	1.2 @ 1MHZ	20	3.41	43	31.2	16.2	21.6
PSA7070HC-182M	1.8 @ 1MHZ	20	4.46	43	25.0	15.8	21.0
PSA7070HC-222M	2.2 @ 1MHZ	20	6.33	35	19.6	13.2	17.8
PSA7070HC-332M	3.3 @ 1MHZ	20	9.42	32	19.4	11.5	15.1
PSA7070HC-472M	4.7 @ 1MHZ	20	14.26	26	15.2	10.5	13.6
PSA7070HC-562M	5.6 @ 1MHZ	20	15.03	21	13.0	8.5	11.4
PSA7070HC-682M	6.8 @ 1MHZ	20	19.62	20	12.8	6.8	9.2
PSA7070HC-223M	22 @ 1MHZ	20	48.6	8.6	5.3	5.0	6.7
PSA7070HC-473M	47 @ 1MHZ	20	97.07	5.7	4.2	3.1	4.1

SMT Power Inductors-PSA7070HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current





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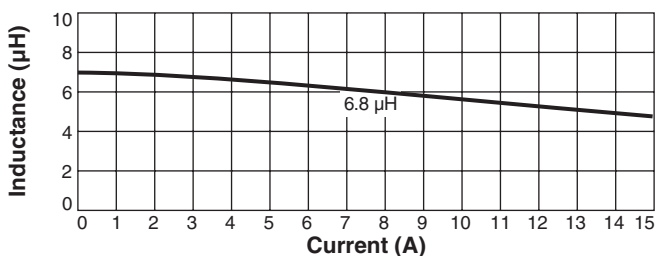
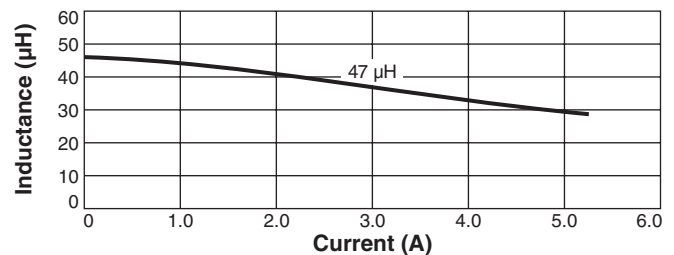
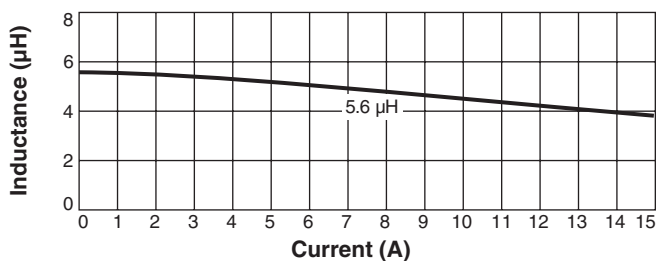
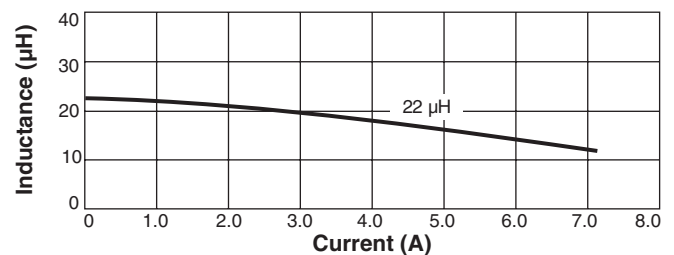
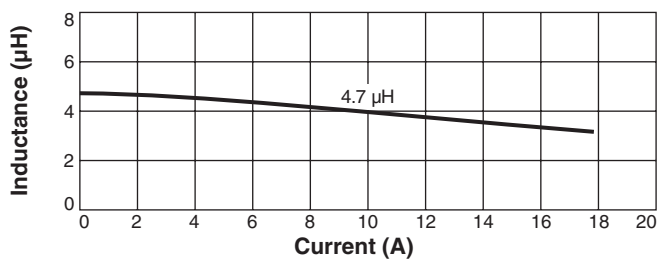
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SMT Power Inductors-PSA7070HC

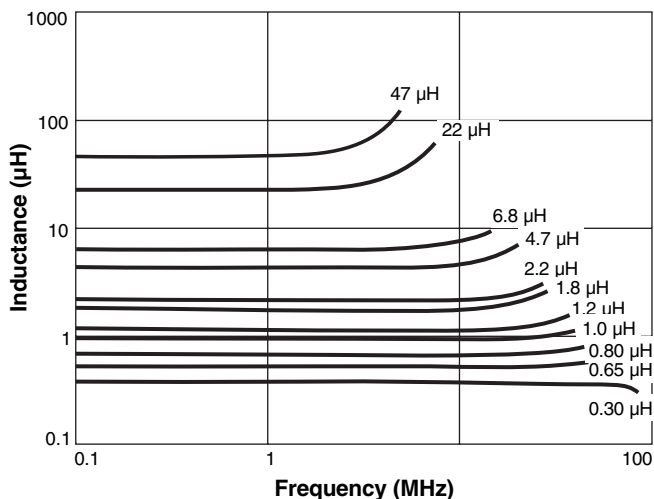
电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current



Typical L vs Frequency





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SMT Power Inductors-PSA7070HC

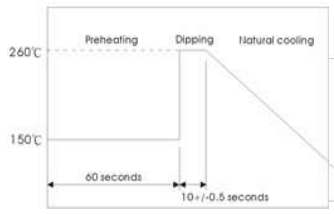
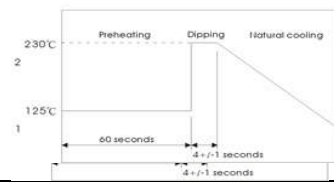
电气特性

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-PSA7070HC

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。