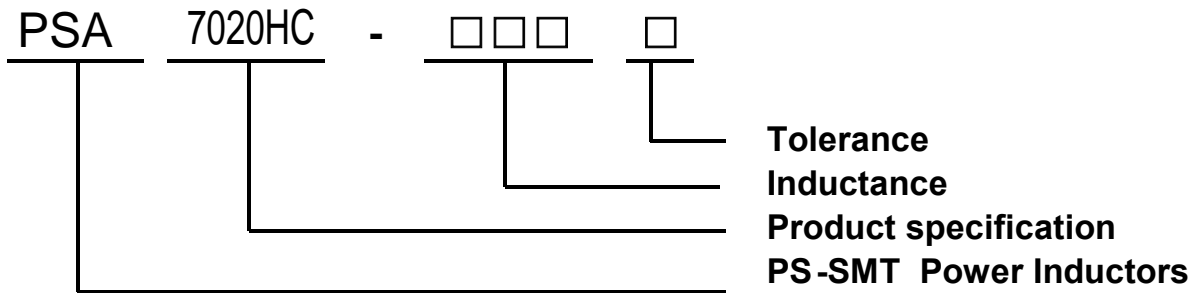


SMT Power Inductors-PSA7020HC

产品型号

PRODUCT IDENTIFICATION



Tolerance:

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

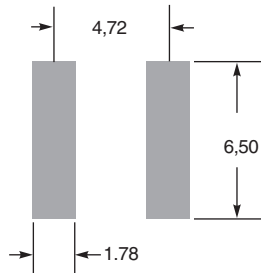
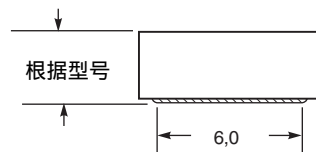
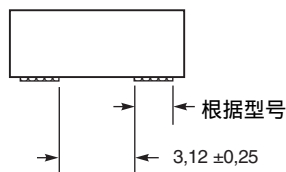
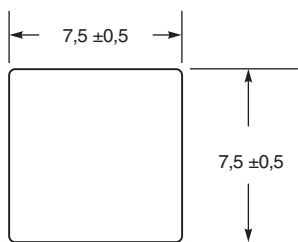
Inductance:

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	端子宽度 ±0.10	最大高度
-151	1.60	2.05
-271	1.60	2.05
-331	1.60	2.00
-471	1.60	2.00
-681	1.60	2.00
-102	1.60	2.00
-122	1.60	2.00
-152	1.40	2.00
-222	1.40	2.00



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SMT Power Inductors-PSA7020HC

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
PSA7020HC-151M	0.15 @ 1MHZ	20	2.5	161	46.0	18	24
PSA7020HC-271M	0.27 @ 1MHZ	20	3.8	112	30.0	15	21
PSA7020HC-331M	0.33 @ 1MHZ	20	5.2	88	28.0	14	20
PSA7020HC-471M	0.47 @ 1MHZ	20	6.4	72	24.3	12	17
PSA7020HC-681M	0.68 @ 1MHZ	20	9.5	54	22.3	10	13
PSA7020HC-102M	1.0 @ 1MHZ	20	10.8	46	18.0	8.0	11
PSA7020HC-122M	1.2 @ 1MHZ	20	12.8	42	17.6	7.0	10
PSA7020HC-152M	1.5 @ 1MHZ	20	19.3	37	15.0	6.0	9.0
PSA7020HC-222M	2.2 @ 1MHZ	20	31.6	29	13.6	5.0	7.0



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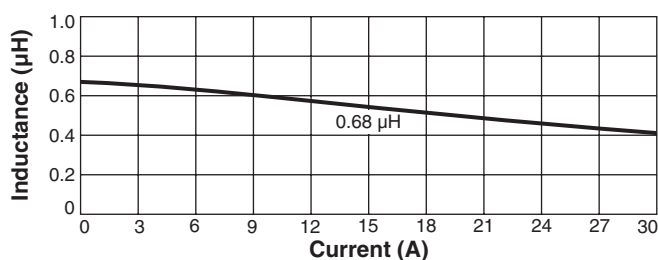
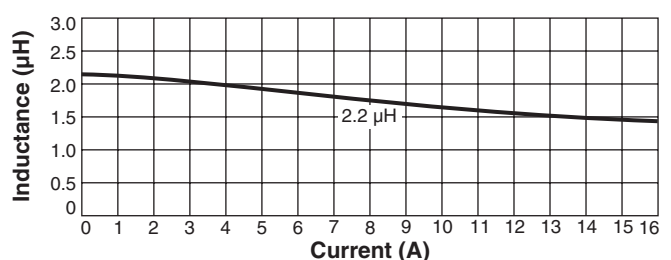
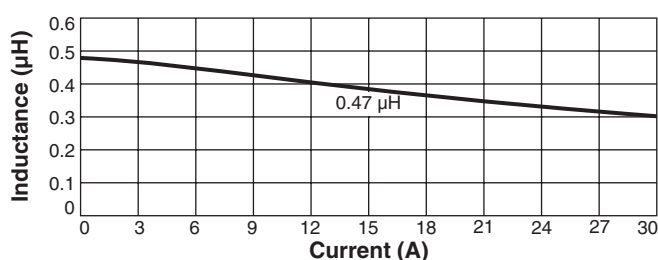
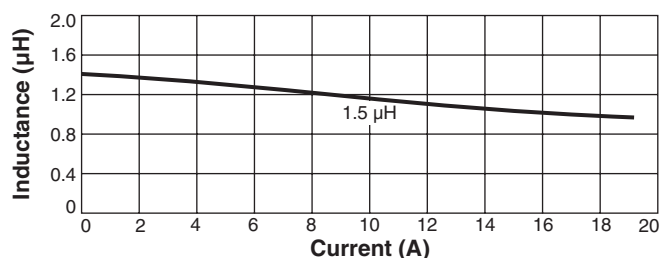
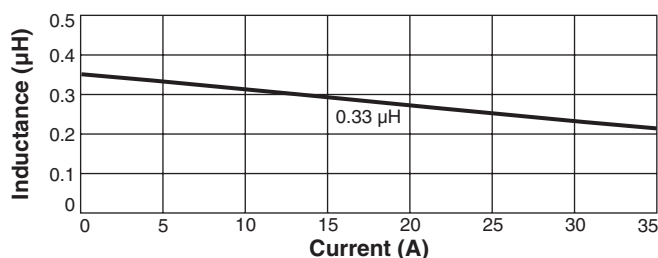
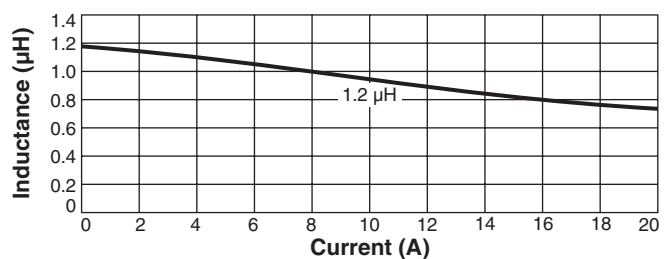
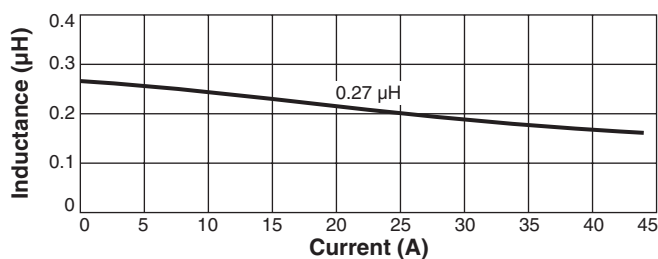
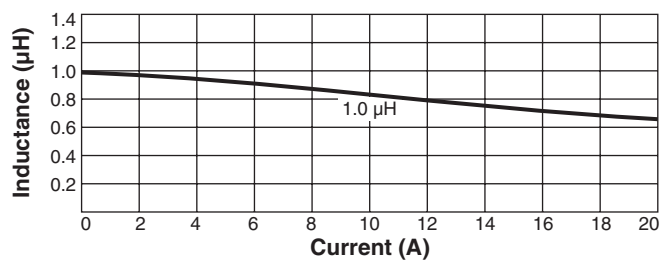
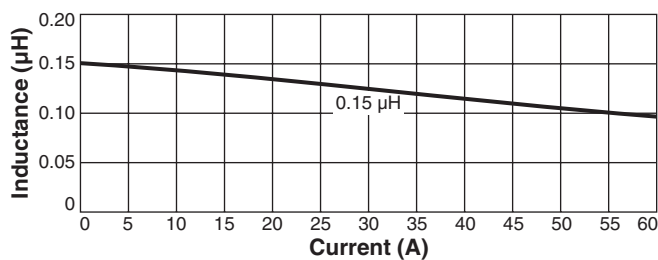
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SMT Power Inductors-PSA7020HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current





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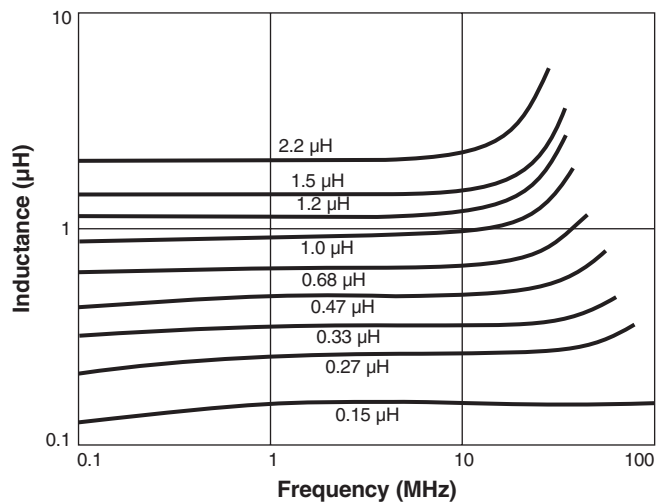
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SMT Power Inductors-PSA7020HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Frequency





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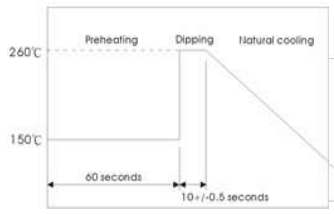
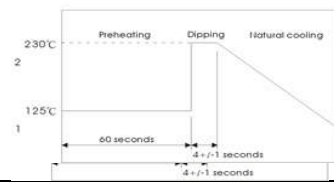
电气特性

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-PSA7020HC

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。