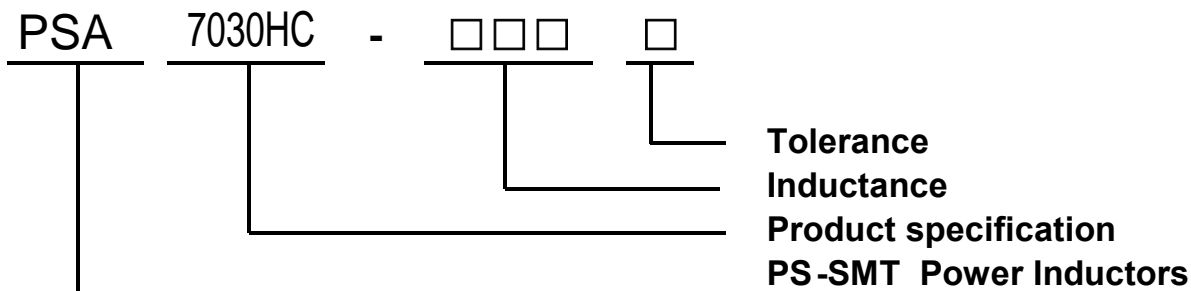


SMT Power Inductors-PSA7030HC

产品型号

PRODUCT IDENTIFICATION



Tolerance:

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

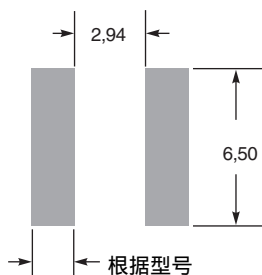
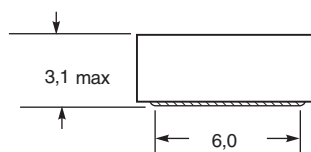
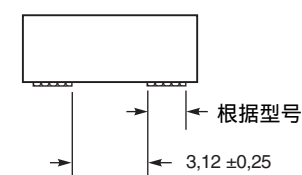
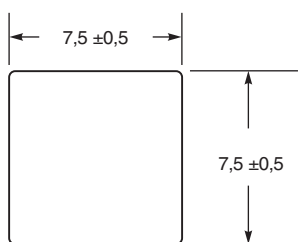
Inductance:

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
-161	1,60	1,78
-301	1,60	1,78
-601	1,60	1,78
-102	1,60	1,78
-152	1,60	1,78
-222	1,60	1,78
-272	1,60	1,78
-332	1,60	1,78
-472	1,40	1,58
-562	1,40	1,58
-682	1,40	1,58
-822	1,40	1,58
-103	1,40	1,58



深圳市富爾電子科技有限公司

ADD: 深圳市南山區後海工業七路8號

<http://www.frcoil.com>

Tel/Fax: 0755-21606613/21606608

Email: xy@frcoil.com

SMT Power Inductors-PSA7030HC

规格特性

SPECIFICATIONS

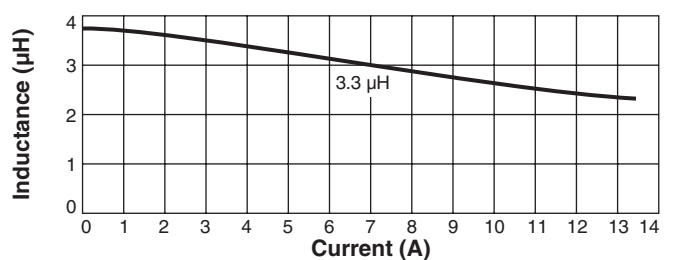
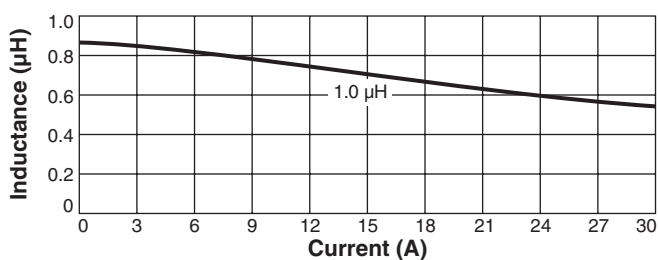
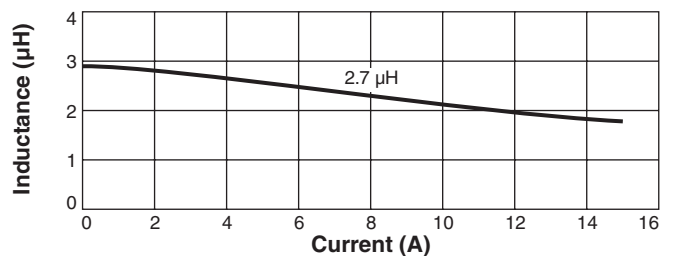
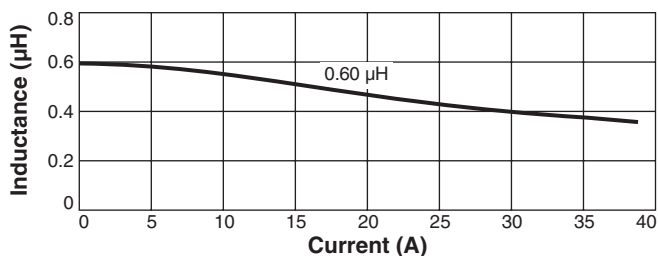
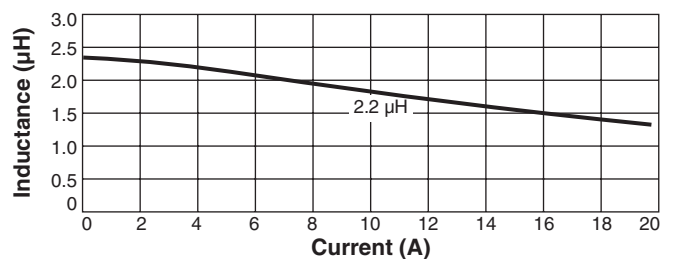
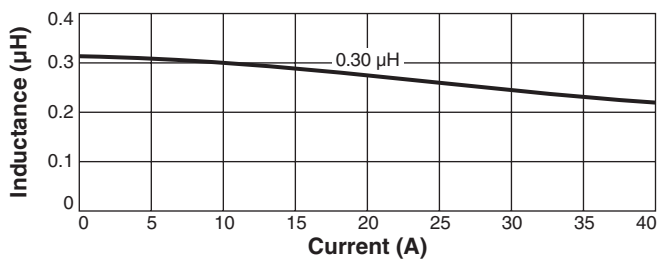
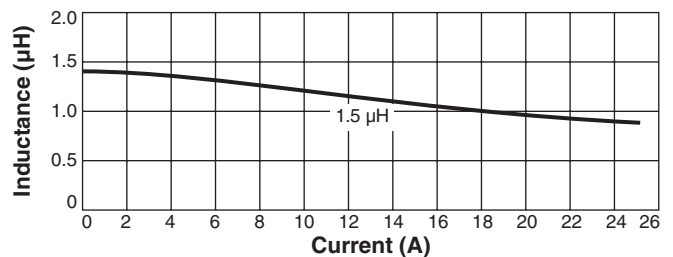
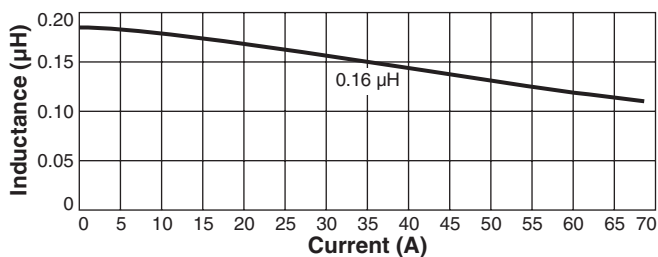
Part number	Inductance (uH)	Percent tolerance	DCR max (mOhms)	SRF typ (MHz)	Isat (A)	Irms(A)	
						20°C rise	40°C rise
PSA7030HC-161M	0.16 @ 1MHZ	20	1.26	158	39.0	24.9	32.5
PSA7030HC-301M	0.3 @ 1MHZ	20	1.92	101	26.7	21.0	27.6
PSA7030HC-601M	0.6 @ 1MHZ	20	3.30	72	23.4	18.0	23.0
PSA7030HC-102M	1.0 @ 1MHZ	20	5.00	52	18.2	16.1	21.8
PSA7030HC-152M	1.5 @ 1MHZ	20	8.36	39	15.2	11.9	15.0
PSA7030HC-222M	2.2 @ 1MHZ	20	15.07	29	12.0	10.0	12.9
PSA7030HC-272M	2.7 @ 1MHZ	20	17.30	32	8.3	9.2	11.4
PSA7030HC-332M	3.3 @ 1MHZ	20	21.45	25	8.0	8.0	10.0
PSA7030HC-472M	4.7 @ 1MHZ	20	30.00	21	7.0	6.9	9.0
PSA7030HC-562M	5.6 @ 1MHZ	20	32.32	17	6.4	5.3	7.3
PSA7030HC-682M	6.8 @ 1MHZ	20	51.75	15	5.7	4.4	6.8
PSA7030HC-822M	8.2 @ 1MHZ	20	60.94	13	5.5	2.9	5.9
PSA7030HC-103M	10 @ 1MHZ	20	69.46	12	5.3	2.6	5.3

SMT Power Inductors-PSA7030HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current





深圳市富爾電子科技有限公司

ADD: 深圳市南山區後海工業七路8號

Tel/Fax: 0755-21606613/21606608

<http://www.frcoil.com>

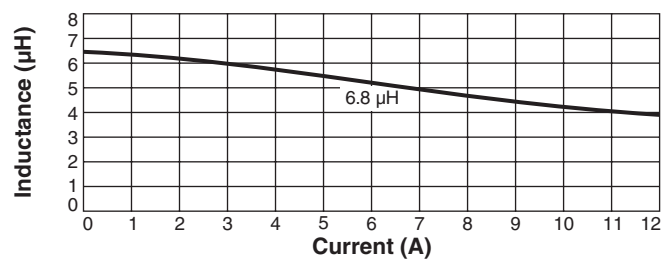
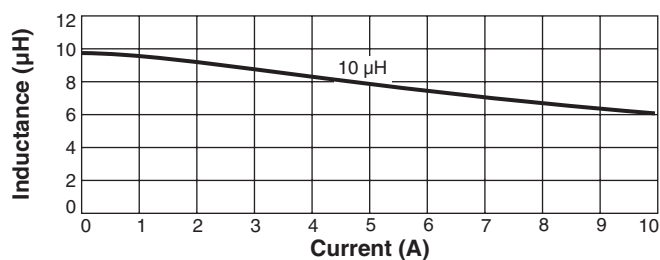
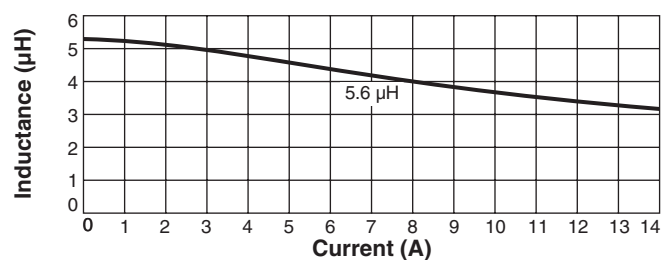
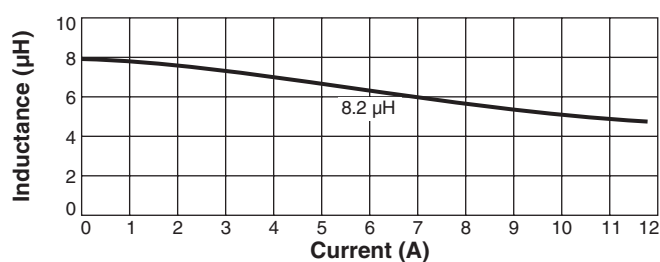
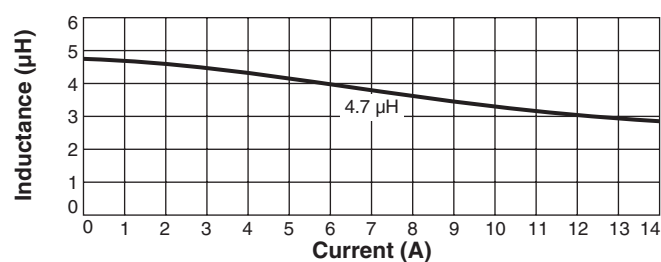
Email: xy@frcoil.com

SMT Power Inductors-PSA7030HC

电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current





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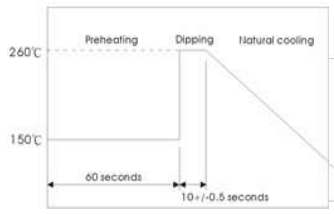
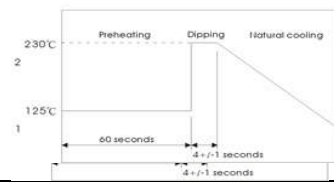
电气特性

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 $\pm 20\%$. 外观: 无显著异常。 电感值: 变异性在初始值 $\pm 20\%$ 以内。	Preheat: 150℃, 60sec. Solder: H63A Solder temperature: 260 ± 5 ℃ Flux for lead free: rosin Dip time: 10 ± 0.5 sec. 预热: 150℃, 60sec. 锡炉温度: 260 ± 5 ℃. 时间: 10 ± 0.5 sec 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 ± 1 sec. 预热: 125 ± 25 ℃, 60sec. 锡炉温度: 230 ± 5 ℃. 时间: 4 ± 1 sec. 助焊剂: rosin. 
High Temperature 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: 变异性在初始值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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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 3 hrs. 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。