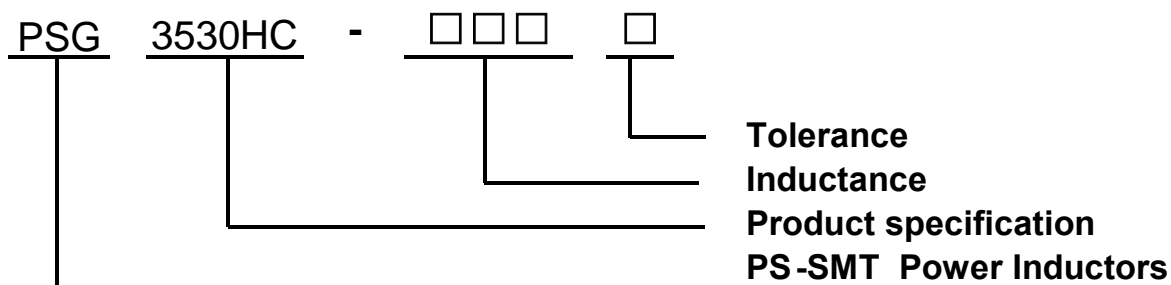


## SMT Power Inductors- PSG3530HC

### 产品型号

### PRODUCT IDENTIFICATION



#### Tolerance:

Code	Tolerance
102	1.0 $\mu$ H
103	10.0 $\mu$ H
104	100.0 $\mu$ H
105	1000.0 $\mu$ H
106	10000.0 $\mu$ H

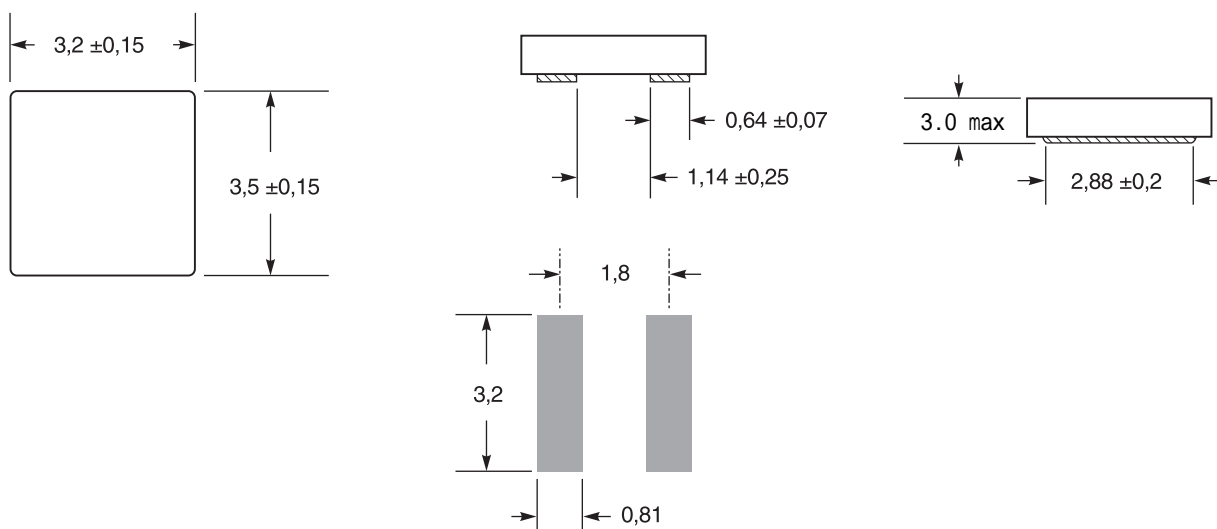
#### Inductance:

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- PSG3530HC

### 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
PSG3530HC-101M	0.10 @ 1MHZ	20	2.5	320	16.5	20.0	27.5
PSG3530HC-201M	0.20 @ 1MHZ	20	3.5	220	11.8	16.6	22.4
PSG3530HC-331M	0.33 @ 1MHZ	20	4.6	160	9.1	13.4	18.5
PSG3530HC-451M	0.45 @ 1MHZ	20	5.6	140	7.8	11.9	15.9
PSG3530HC-601M	0.60 @ 1MHZ	20	6.9	110	7.4	10.8	14.7
PSG3530HC-701M	0.70 @ 1MHZ	20	8.0	100	7.3	9.5	12.9
PSG3530HC-821M	0.82 @ 1MHZ	20	9.2	95	6.7	9.2	12.5
PSG3530HC-102M	1.0 @ 1MHZ	20	10.5	82	6.2	8.6	11.7
PSG3530HC-122M	1.2 @ 1MHZ	20	12.8	73	5.6	7.8	10.4
PSG3530HC-152M	1.5 @ 1MHZ	20	15.3	66	5.2	6.5	8.8
PSG3530HC-222M	2.2 @ 1MHZ	20	23.0	52	4.0	5.2	7.2
PSG3530HC-332M	3.3 @ 1MHZ	20	37.4	43	3.3	4.0	5.4
PSG3530HC-472M	4.7 @ 1MHZ	20	51.2	33	2.7	3.3	4.5
PSG3530HC-562M	5.6 @ 1MHZ	20	62.1	30	2.4	3.0	4.05
PSG3530HC-682M	6.8 @ 1MHZ	20	78.2	28	2.1	2.7	3.7



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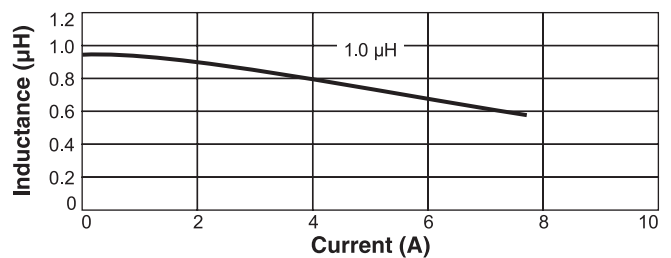
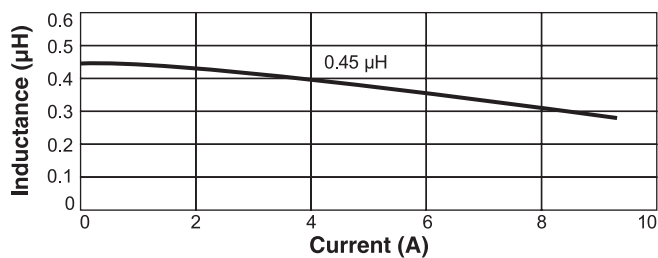
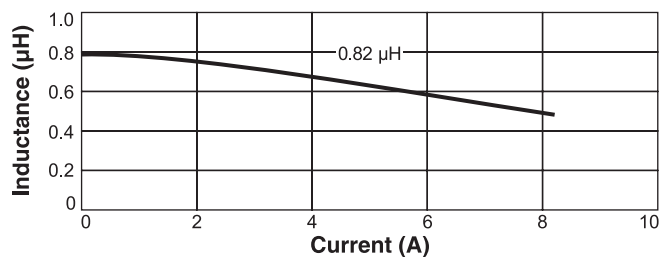
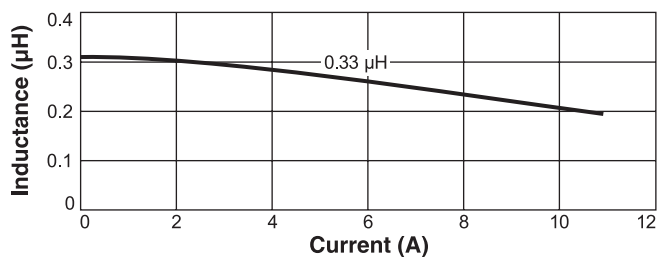
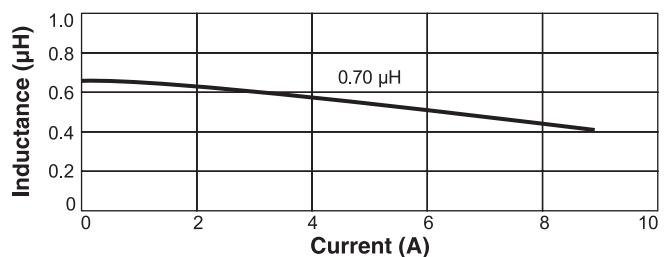
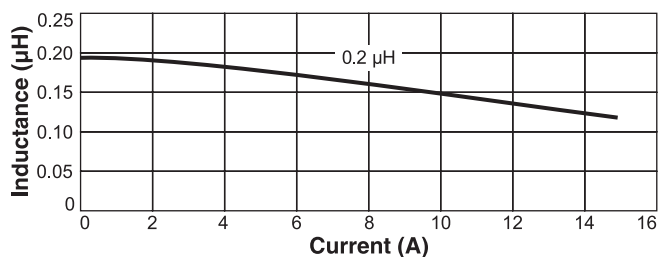
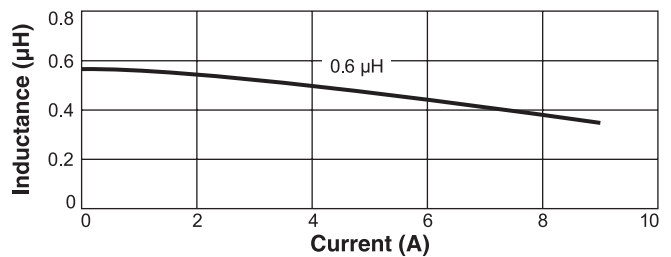
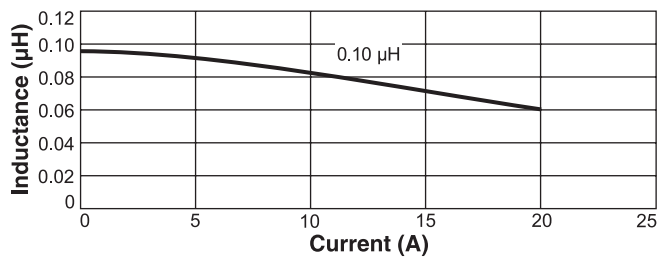
Email: [xy@frcoil.com](mailto:xy@frcoil.com)

## SMT Power Inductors- PSG3530HC

### 电气特性

### TYPICAL ELECTRICAL CHARACTERISTICS

#### L vs Current

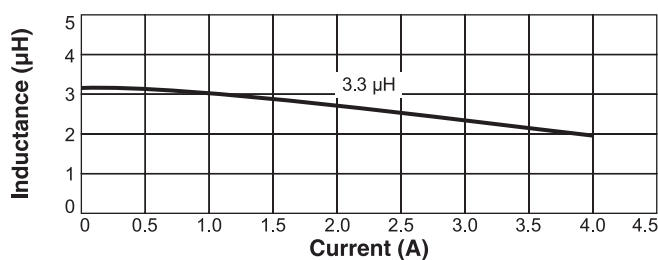
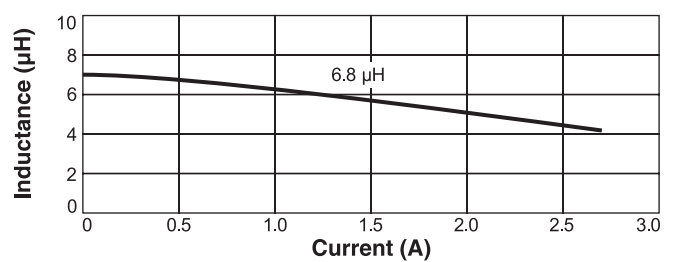
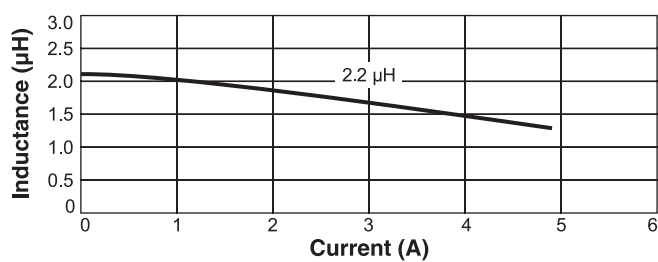
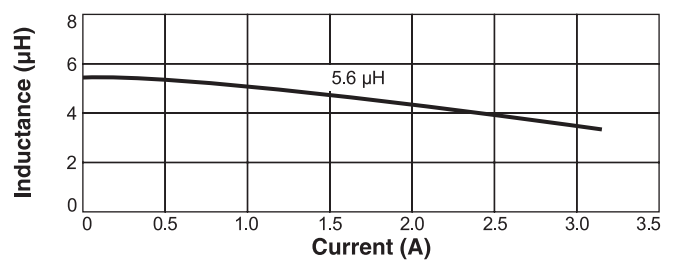
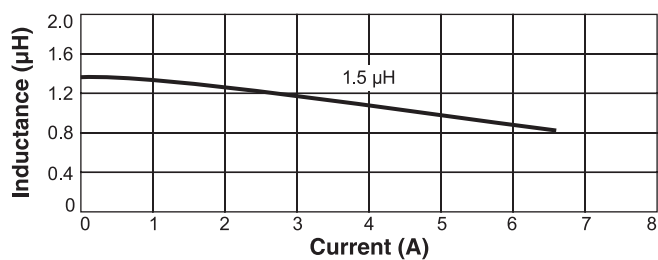
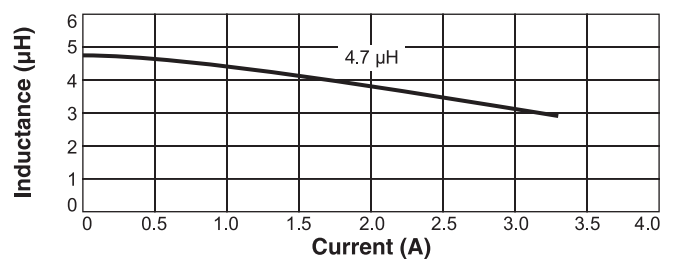
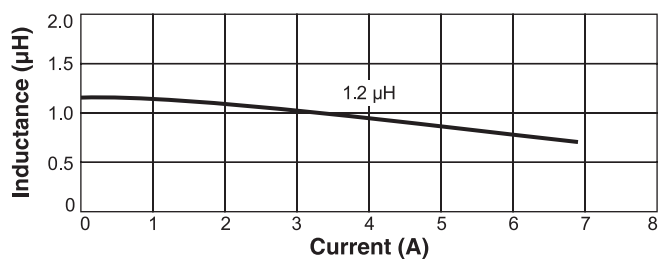


## SMT Power Inductors- PSG3530HC

### 电气特性

### TYPICAL ELECTRICAL CHARACTERISTICS

#### L vs Current





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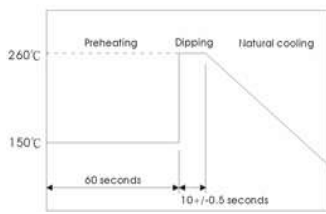
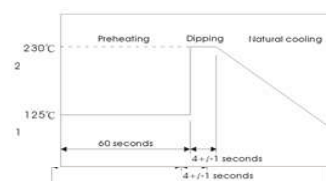
### 电气特性

### 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. 端子电极之锡覆盖面达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- PSG3530HC

### 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:- $25\pm 2^{\circ}\text{C}$ , $30\pm 3$ min. Step 2:Room temperature within 15 min. Step 3:+ $85\pm 5^{\circ}\text{C}$ , $30\pm 3$ 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 $\pm$ 12hrs. 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 $\pm$ 12hrs. 测试结束于室温放置2~3小时, 始可测试电气特性。