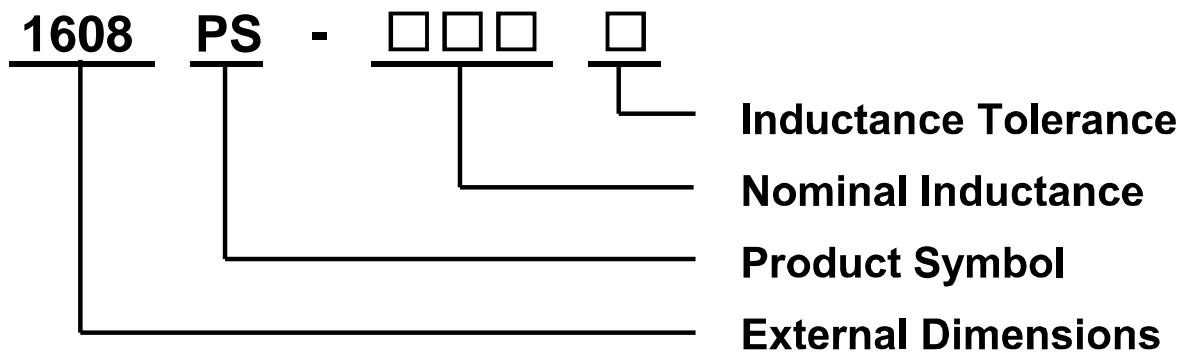


# 1608PS(0603)

## 產品型號

## PRODUCT IDENTIFICATION

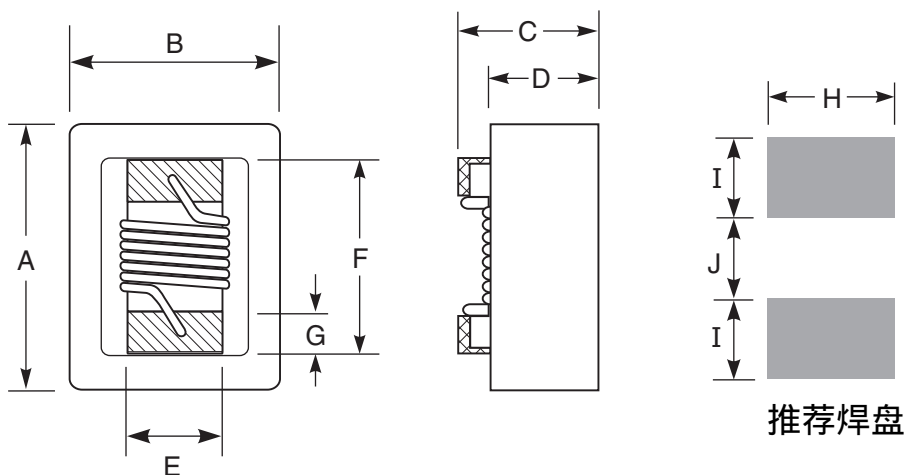


Inductance Tolerance: K=±10% L=± 15% M=± 20%

## 外觀尺寸

## SHAPE AND DIMENSIONS

單位：mm



A	B	C	D	E	F	G	H	I	J
max	max	max							
2,59	2,08	1,80	1,24	0,76	1,52	0,33	1,02	0,64	0,64



# 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

## 1608PS(0603)

### 規格特性

### SPECIFICATIONS

Part number	L (uH)	Q min at 1 MHz	DCR max (Ohms)	SRF typ (MHz)	Isat (A)	Irms (A)
1608PS-781_	0.78	15	0.24	475	0.55	1.30
1608PS-102_	1.0	15	0.26	390	0.40	1.00
1608PS-182_	1.8	15	0.54	155	0.39	0.70
1608PS-222_	2.2	15	0.75	245	0.33	0.60
1608PS-272_	2.7	15	0.75	127	0.33	0.55
1608PS-332_	3.3	15	0.88	72	0.32	0.50
1608PS-392_	3.9	15	1.00	72	0.27	0.48
1608PS-472_	4.7	15	1.08	64	0.26	0.47
1608PS-562_	5.6	15	1.18	51	0.23	0.41
1608PS-682_	6.8	15	1.23	39	0.23	0.40
1608PS-822_	8.2	20	1.43	30	0.22	0.39
1608PS-103_	10	20	1.60	30	0.21	0.38
1608PS-153_	15	20	1.92	22	0.16	0.35
1608PS-223_	22	20	2.96	16	0.13	0.27
1608PS-333_	33	20	5.63	12	0.10	0.20
1608PS-473_	47	20	5.69	12	0.10	0.18



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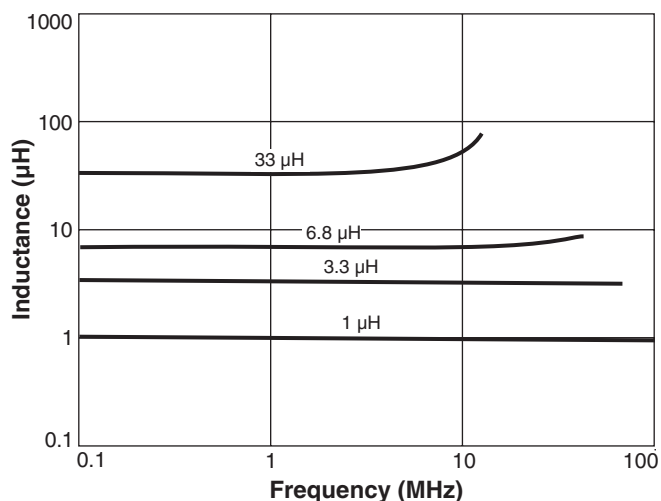
Email: [xy@frcoil.com](mailto:xy@frcoil.com)

## 1608PS(0603)

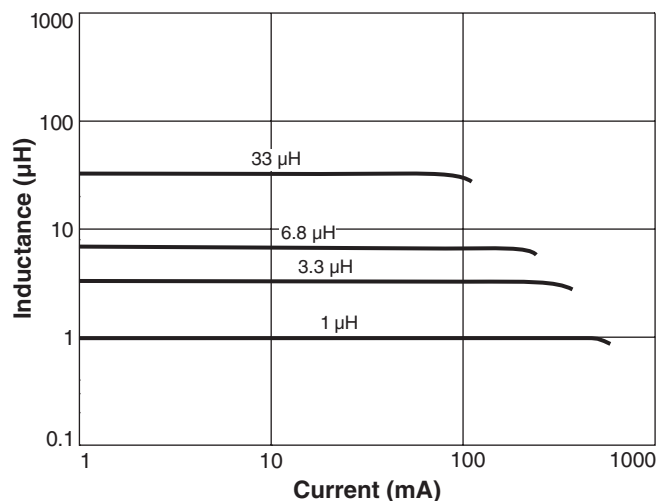
### 電氣特性

### TYPICAL ELECTRICAL CHARACTERISTICS

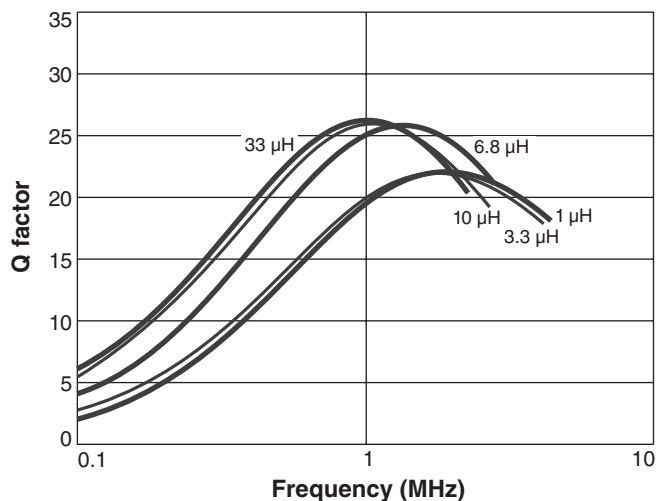
#### Typical L vs Frequency



#### Typical L vs Current



#### Typical Q vs Frequency





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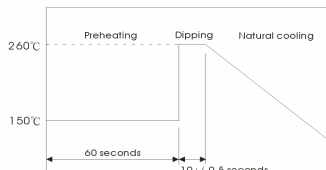
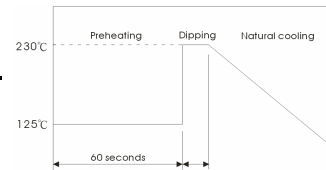
Email: [xy@frcoil.com](mailto:xy@frcoil.com)

## 1608PS(0603)

### 電氣特性

### TYPICAL ELECTRICAL CHARACTERISTICS

Reliability and Test Conditions (可靠性測試條件)

ITEM	Performance	Test Condition
Operating Temperature 操作溫度	-40°C ~ 125°C	10Pcs Passed
Storage temperature 儲存溫度	-55°C ~ 125°C	10Pcs Passed
Rated Current 額定電流	Refer to standard electrical characteristics list. 參考標準特性規格表	10Pcs Passed
Temperature Rise Test 溫升測試	40°C max.( $\Delta t$ ) 40度最大	10Pcs Passed
Electrical Performance Test		
Solder Heat Resistance 耐焊錫熱	Appearance: No significant abnormality. Inductance change: Within $\pm 20\%$ . 外觀: 無顯著異常 電感值: 變異值在初始值20%之內	Preheat: 150°C, 60sec. Solder: H63A solder temperature: 260 $\pm 5^\circ\text{C}$ Flux for lead free: rosin Dip time: 10 $\pm 0.5$ sec. 預熱: 150°C, 60sec. 錫爐溫度: 260 $\pm 5^\circ\text{C}$ 時間: 10 $\pm 0.5$ sec. 助焊劑: rosin 
Solderability Test 端面焊錫性	More than 90% of the terminal electrode should be covered with solder. 端電極之錫覆蓋面達90%以上	Preheat: 125 $\pm 25^\circ\text{C}$ , 60sec. Solder: H63A solder temperature: 230 $\pm 5^\circ\text{C}$ Flux for lead free: rosin Dip time: 4 $\pm 1$ sec. 預熱: 125 $\pm 25^\circ\text{C}$ , 60sec. 錫爐溫度: 230 $\pm 5^\circ\text{C}$ 時間: 4 $\pm 1$ sec. 助焊劑: rosin 
High Temperature Resistance Test 高溫放置測試	Appearance: no damage. Inductance: within $\pm 20\%$ of initial value. No disconnection or short circuit. 外觀不能破損 電感值: 變異值在初始值20%之內 電性無短路或斷線	Temperature: 85 $\pm 2^\circ\text{C}$ . Applied current: rated current. Duration: 500 hrs.
Humidity Resistance Test 高濕放置測試	Appearance: no damage. Inductance: within $\pm 20\%$ of initial value. No disconnection or short circuit. 外觀不能破損 電感值: 變異值在初始值20%之內 電性無短路或斷線	Temperature: 40 $\pm 2^\circ\text{C}$ . Applied current: rated current. Duration: 500 hrs. Humidity: 90~95%



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Tel/Fax: 0755-21606613/21606608

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## 1608PS(0603)

### 電氣特性

### TYPICAL ELECTRICAL CHARACTERISTICS

Reliability and Test Conditions ( 可靠性測試條件 )

ITEM	Performance	Test Condition															
Thermal shock 熱衝擊試驗	Appearance: no damage. Inductance: within $\pm 20\%$ of initial value. No disconnection or short circuit. 外觀不能破損 電感值：變異值在初始值20%之內。 電性無短路或斷線	Condition for 1 cycle Step1: $-25 \pm 2^\circ\text{C}$ , 30 $\pm$ 3 min. Step2: Room temperature within 15 min. Step3: $+85 \pm 5^\circ\text{C}$ , 30 $\pm$ 3 min. Step4: Room temperature within 15 min. Number of cycles: 50 <table><tr><th>Phase</th><th>Temperature(<math>^\circ\text{C}</math>)</th><th>Time(min)</th></tr><tr><td>1</td><td><math>-25 \pm 2^\circ\text{C}</math></td><td>30 <math>\pm</math> 3</td></tr><tr><td>2</td><td>Room Temp.</td><td>15</td></tr><tr><td>3</td><td><math>+85 \pm 2^\circ\text{C}</math></td><td>30 <math>\pm</math> 3</td></tr><tr><td>4</td><td>Room Temp.</td><td>15</td></tr></table>	Phase	Temperature( $^\circ\text{C}$ )	Time(min)	1	$-25 \pm 2^\circ\text{C}$	30 $\pm$ 3	2	Room Temp.	15	3	$+85 \pm 2^\circ\text{C}$	30 $\pm$ 3	4	Room Temp.	15
Phase	Temperature( $^\circ\text{C}$ )	Time(min)															
1	$-25 \pm 2^\circ\text{C}$	30 $\pm$ 3															
2	Room Temp.	15															
3	$+85 \pm 2^\circ\text{C}$	30 $\pm$ 3															
4	Room Temp.	15															
Humidity Resistance 高濕測試	Appearance: no damage. Inductance: within $\pm 20\%$ of initial value. No disconnection or short circuit. 外觀不能破損 電感值：變異值在初始值20%之內。 電性無短路或斷線	Humidity: 90~95%RH. Temperature: $40 \pm 5^\circ\text{C}$ . Applied current: rated current. Duration: 500 $\pm$ 12 hrs. Measured at room temperature after placing for 2 to 3 hrs. 濕度: 90~95%RH. 溫度: $40 \pm 5^\circ\text{C}$ . 須加電流: 額定電流. 放置時間: 500 $\pm$ 12 hrs.															

### 卷盤包裝

### REEL PACKAGING

#### 自動插入編帶的表面貼裝線圈

#### 表面貼裝設備/可調整型和固定型

它可以擴展到產品分類和非常突出的質量控制。不只是給你一各構成方面的優良的性能表現，而且最重要的，允許在當今這個競爭世界中要求的靈活製造廠使用多樣化的放置和焊接設備。