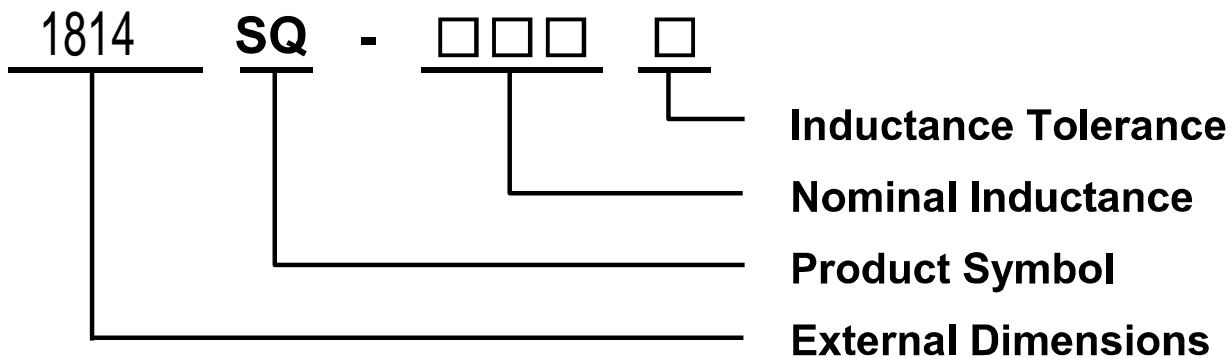


1814SQ(0806)

RoHS

產品型號

PRODUCT IDENTIFICATION

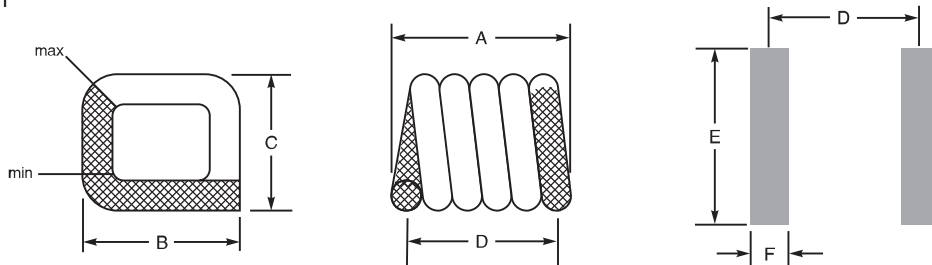


Inductance Tolerance: B=±0.1nH C=±0.2nH S=±0.3nH D=±0.5nH
F=±1% G=±2% J=±5% K=±10%

外觀尺寸

SHAPE AND DIMENSIONS

單位：mm



推荐焊盘

Part number	A	B	C	D	E	F
1814SQ-5N5	1.364 ±0.102	1.829 ±0.254	1.397 ±0.102	0.962	2.6	0.51
1814SQ-6N0	1.295 ±0.102	1.829 ±0.254	1.397 ±0.102	1.02	2.6	0.51
1814SQ-8N9	1.626 ±0.152	1.829 ±0.254	1.397 ±0.102	1.32	2.6	0.51
1814SQ-12N	1.930 ±0.152	1.829 ±0.254	1.397 ±0.102	1.63	2.6	0.51
1814SQ-16N	2.286 ±0.152	1.829 ±0.254	1.397 ±0.102	1.96	2.6	0.51
1814SQ-19N	2.591 ±0.152	1.829 ±0.254	1.397 ±0.102	2.29	2.6	0.51



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規格特性

SPECIFICATIONS

Part number	Inductance (nH)	Percent tolerance	Q typ	SRF typ (GHz)	DCR max (mOhms)	Irms (A)
1814SQ-5N5_	5.5 @ 400MHz	5,2	60	4.90	3.40	2.9
1814SQ-6N0_	6.0 @ 400MHz	5,2	64	5.20	6.00	2.9
1814SQ-8N9_	8.9 @ 400MHz	5,2	90	4.30	7.00	2.9
1814SQ-12N_	12.3 @ 400MHz	5,2	90	4.80	8.00	2.9
1814SQ-16N_	15.7 @ 400MHz	5,2	90	4.40	9.00	2.9
1814SQ-19N_	19.4 @ 400MHz	5,2	90	4.00	10.00	2.9



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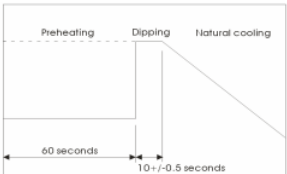
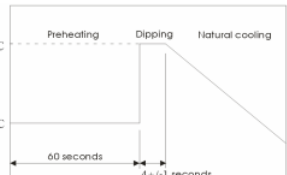
RoHS

1814SQ(0806)

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.(Δt) 40度最大	10Pcs Passed
Electrical Performance Test		
Solder Heat Resistance 耐焊錫熱	Appearance: No significant abnormality. Inductance change: Within ±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±5°C Flux for lead free: rosin Dip time: 10±0.5sec. 預熱: 150°C, 60sec. 錫爐溫度: 260±5°C 時間: 10±0.5sec. 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±25°C, 60sec. Solder: H63A solder temperature: 230±5°C Flux for lead free: rosin Dip time: 4±1sec. 預熱: 125±25°C, 60sec. 錫爐溫度: 230±5°C 時間: 4±1sec. 助焊劑: rosin 
High Temperature Resistance Test 高溫放置測試	Appearance: no damage. Inductance: within ±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±2°C. Applied current: rated current. Duration: 500 hrs.
Humidity Resistance Test 高濕放置測試	Appearance: no damage. Inductance: within ±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±2°C. Applied current: rated current. Duration: 500 hrs. Humidity: 90~95%



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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($^\circ\text{C}$)</th><th>Time(min)</th></tr><tr><td>1</td><td>$-25 \pm 2^\circ\text{C}$</td><td>30\pm3</td></tr><tr><td>2</td><td>Room Temp.</td><td>15</td></tr><tr><td>3</td><td>$+85 \pm 2^\circ\text{C}$</td><td>30\pm3</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 12hrs. Measured at room temperature after placing for 2 to 3hrs. 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 12hrs.															