

404220(1508)

RoHS

產品型號

PRODUCT IDENTIFICATION

404220

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Inductance Tolerance

Nominal Inductance

Product Symbol

External Dimensions

Inductance Tolerance: B=±0.1nH C=±0.2nH S=±0.3nH D=±0.5nH

F=±1%

G=±2%

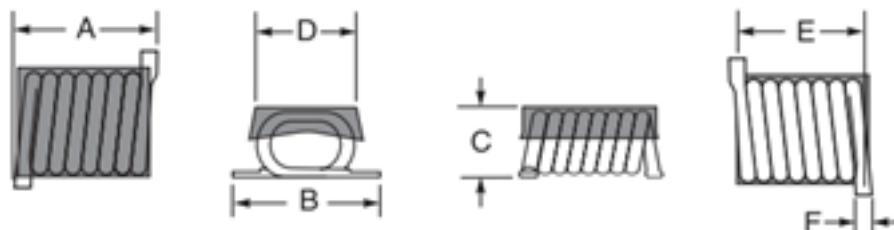
J=±5%

K=±10%

外觀尺寸

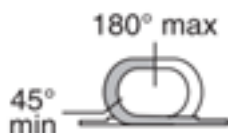
SHAPE AND DIMENSIONS

单位: mm



Recommended Land Patterns

Strip Length



推荐焊盘

A max	B max	C max	D	E max	F max	G	H	I
3.94	4.19	2.01	3.43	3.3	0.74	1.27	4.57	2.92



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規格特性

SPECIFICATIONS

Part number	Turns	Inductance (nH)	Percent tolerance	Q min	SRF typ (GHz)	DCR max (mOhms)	Irms (A)
404220 -5N5_	3	5.50	5,2	115	5.00	2.60	4.0
404220 -9N0_	4	9.00	5,2	120	4.00	3.40	4.0
404220 -13N_	5	13.00	5,2	100	3.00	3.90	4.0

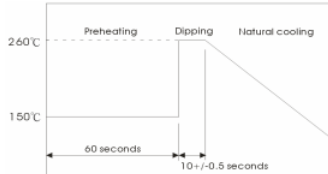
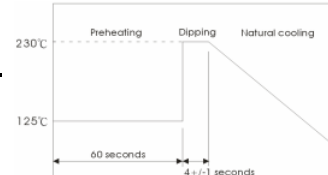
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電氣特性

TYPICAL ELECTRICAL CHARACTERISTICS

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

ITEM	Performance	Test Condition
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 $\pm 20\%$. 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 ± 5 °C Flux for lead free: rosin Dip time: 10 ± 0.5 sec. 預熱: 150°C, 60sec. 錫爐溫度: 260 ± 5 °C 時間: 10 ± 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 ± 25 °C, 60sec. Solder: H63A solder temperature: 230 ± 5 °C Flux for lead free: rosin Dip time: 4 ± 1 sec. 預熱: 125 ± 25 °C, 60sec. 錫爐溫度: 230 ± 5 °C 時間: 4 ± 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 ± 2 °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 ± 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 ± 3 min. Step2: Room temperature within 15 min. Step3: $+85 \pm 5^\circ\text{C}$, 30 ± 3 min. Step4: Room temperature within 15 min. Number of cycles: 50 <table border="1"> <thead> <tr> <th>Phase</th><th>Temperature($^\circ\text{C}$)</th><th>Time(min)</th></tr> </thead> <tbody> <tr> <td>1</td><td>$-25 \pm 2^\circ\text{C}$</td><td>30 ± 3</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 ± 3</td></tr> <tr> <td>4</td><td>Room Temp.</td><td>15</td></tr> </tbody> </table>	Phase	Temperature($^\circ\text{C}$)	Time(min)	1	$-25 \pm 2^\circ\text{C}$	30 ± 3	2	Room Temp.	15	3	$+85 \pm 2^\circ\text{C}$	30 ± 3	4	Room Temp.	15
Phase	Temperature($^\circ\text{C}$)	Time(min)															
1	$-25 \pm 2^\circ\text{C}$	30 ± 3															
2	Room Temp.	15															
3	$+85 \pm 2^\circ\text{C}$	30 ± 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 ± 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 ± 12 hrs.															