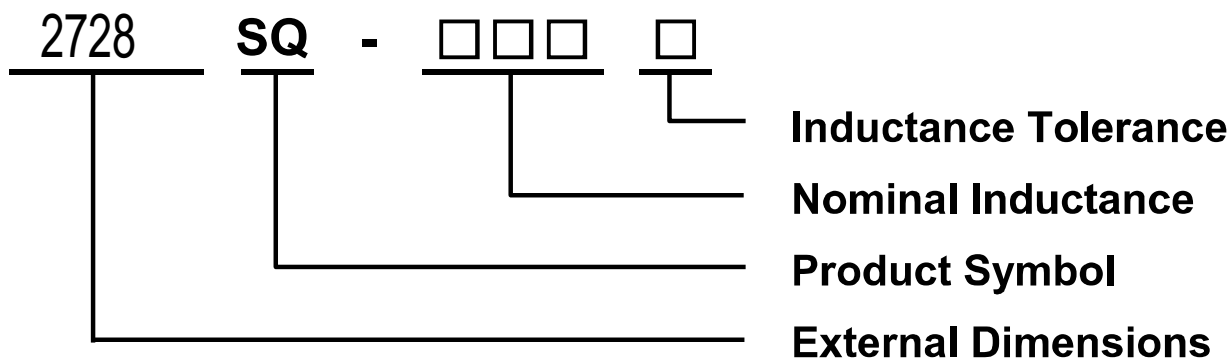


2728SQ(1111)

RoHS

產品型號

PRODUCT IDENTIFICATION

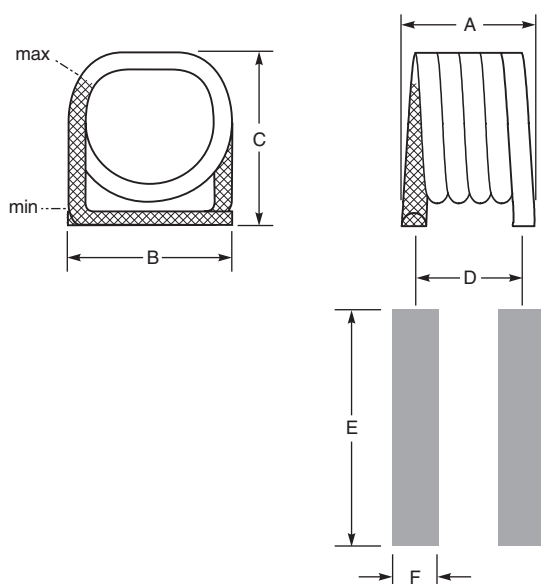


Inductance Tolerance: B=±0.1nH C=±0.2nH S=±0.3nH D=±0.5nH
F=±1% G=±2% J=±5% K=±10%

外觀尺寸

SHAPE AND DIMENSIONS

單位：mm



推荐焊盘

| 型号 | A | B | C | D | E | F |
|------------|-------------|-------------|-------------|------|------|------|
| 2728SQ-27N | 2,67 ±0,254 | 2,67 ±0,381 | 2,79 ±0,127 | 2,29 | 3,05 | 1,02 |
| 2728SQ-30N | 2,67 ±0,254 | 2,67 ±0,381 | 2,79 ±0,127 | 2,29 | 3,05 | 1,02 |
| 2728SQ-33N | 2,92 ±0,254 | 2,67 ±0,381 | 2,79 ±0,127 | 2,54 | 3,05 | 1,02 |
| 2728SQ-36N | 2,92 ±0,254 | 2,67 ±0,381 | 2,79 ±0,127 | 2,54 | 3,05 | 1,02 |
| 2728SQ-39N | 2,92 ±0,254 | 2,67 ±0,381 | 2,79 ±0,127 | 2,54 | 3,05 | 1,02 |
| 2728SQ-43N | 3,30 ±0,254 | 2,67 ±0,381 | 2,79 ±0,127 | 2,79 | 3,05 | 1,02 |
| 2728SQ-47N | 3,30 ±0,254 | 2,67 ±0,381 | 2,79 ±0,127 | 2,79 | 3,05 | 1,02 |



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2728SQ(1111)

RoHS

規格特性

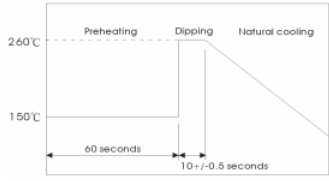
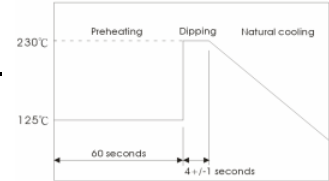
SPECIFICATIONS

| Part number | Inductance (nH) | Percent tolerance | Q typ | Test frequency (MHz) | SRF min (GHz) | DCR (mOhm) | | Irms (A) |
|-------------|--------------------|----------------------|----------|----------------------------|------------------|------------|------|-------------|
| | | | | | | typ | max | |
| 2728SQ-27N_ | 27 | 5,2 | 200 | 400 | 2.60 | 7.0 | 8.1 | 5.5 |
| 2728SQ-30N_ | 30 | 5,2 | 200 | 400 | 2.40 | 7.2 | 8.3 | 5.5 |
| 2728SQ-33N_ | 33 | 5,2 | 200 | 400 | 2.30 | 8.3 | 9.5 | 4.8 |
| 2728SQ-36N_ | 36 | 5,2 | 200 | 400 | 2.30 | 8.5 | 9.8 | 4.8 |
| 2728SQ-39N_ | 39 | 5,2 | 200 | 400 | 2.20 | 8.7 | 10.0 | 4.8 |
| 2728SQ-43N_ | 43 | 5,2 | 200 | 400 | 2.20 | 9.4 | 10.8 | 4.4 |
| 2728SQ-47N_ | 47 | 5,2 | 200 | 400 | 2.20 | 9.8 | 11.3 | 4.4 |

2728SQ(1111)

RoHS
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 $\pm 5^\circ\text{C}$ Flux for lead free: rosin Dip time: 10 ± 0.5 sec. 預熱: 150°C, 60sec. 錫爐溫度: 260 $\pm 5^\circ\text{C}$ 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 $\pm 25^\circ\text{C}$, 60sec. Solder: H63A solder temperature: 230 $\pm 5^\circ\text{C}$ Flux for lead free: rosin Dip time: 4 ± 1 sec. 預熱: 125 $\pm 25^\circ\text{C}$, 60sec. 錫爐溫度: 230 $\pm 5^\circ\text{C}$ 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 $\pm 2^\circ\text{C}$. 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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RoHS

2728SQ(1111)

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 \pm 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 \pm 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. | | | | | | | | | | | | | | | |