

### 1. PART NO. EXPRESSION :

**SCI0402S-1N0KF**  
(a) (b) (c) (d) (e)(f)

(a) Series code

(b) Dimension code

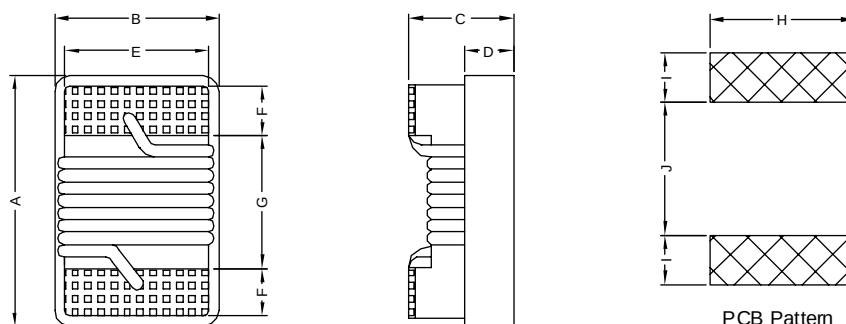
(c) Type code : S ( Standard )

(d) Inductance code : 1N0 = 1.0nH

(e) Tolerance code : G =  $\pm 2\%$ , J =  $\pm 5\%$ , K =  $\pm 10\%$

(f) F : RoHS Compliant

### 2. CONFIGURATION & DIMENSIONS :

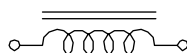


PCB Pattern

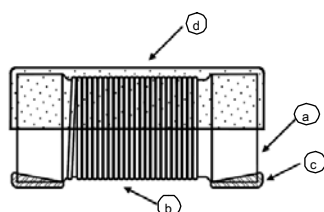
Unit:m/m

| A         | B         | C         | D         | E         | F         | G         | H         | I         | J         |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1.27 Max. | 0.76 Max. | 0.61 Max. | 0.15 Ref. | 0.51 Ref. | 0.23 Ref. | 0.56 Ref. | 0.66 Ref. | 0.50 Ref. | 0.46 Ref. |

### 3. SCHEMATIC :



### 4. MATERIALS :



(a) Ceramic Core

(b) Magnet Wire

(c) Electrode (Ag/Pd+Ni+Sn)

(d) UV Glue



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### 5. GENERAL SPECIFICATION :

- a) Operating temp. : -40° C to +125° C
- b) Storage condition (component in its packaging)
  - i) Temperature : -10 to 40° C
  - ii) Humidity : 60%

### 6. ELECTRICAL CHARACTERISTICS :

| Part No.                 | Tolerance Available | L ( nH ) | Test Freq ( MHz ) | Q Min. | SRF ( MHz ) Min. | DCR ( $\Omega$ ) Max. | IDC ( mA ) Max. | 900MHz L Typ. | 900MHz Q Typ. | 1.7GHz L Typ. | 1.7GHz Q Typ. |
|--------------------------|---------------------|----------|-------------------|--------|------------------|-----------------------|-----------------|---------------|---------------|---------------|---------------|
| SCI0402S-1N0 $\square$ F | K                   | 1.0      | 250               | 16     | 12700            | 0.045                 | 1360            | 1.02          | 77            | 1.02          | 69            |
| SCI0402S-1N9 $\square$ F | K                   | 1.9      | 250               | 16     | 11300            | 0.070                 | 1040            | 1.72          | 68            | 1.74          | 82            |
| SCI0402S-2N0 $\square$ F | K                   | 2.0      | 250               | 16     | 11100            | 0.070                 | 1040            | 1.93          | 54            | 1.93          | 75            |
| SCI0402S-2N2 $\square$ F | K                   | 2.2      | 250               | 19     | 10800            | 0.070                 | 960             | 2.19          | 59            | 2.23          | 100           |
| SCI0402S-2N4 $\square$ F | K                   | 2.4      | 250               | 15     | 10500            | 0.070                 | 790             | 2.24          | 51            | 2.27          | 68            |
| SCI0402S-2N7 $\square$ F | K                   | 2.7      | 250               | 16     | 10400            | 0.120                 | 640             | 2.23          | 42            | 2.25          | 61            |
| SCI0402S-3N3 $\square$ F | K                   | 3.3      | 250               | 19     | 7000             | 0.066                 | 840             | 3.10          | 65            | 3.12          | 87            |
| SCI0402S-3N6 $\square$ F | J,K                 | 3.6      | 250               | 19     | 6800             | 0.066                 | 840             | 3.56          | 45            | 3.62          | 71            |
| SCI0402S-3N9 $\square$ F | J,K                 | 3.9      | 250               | 19     | 5800             | 0.066                 | 840             | 3.89          | 50            | 4.00          | 75            |
| SCI0402S-4N3 $\square$ F | J,K                 | 4.3      | 250               | 18     | 6000             | 0.091                 | 700             | 4.19          | 47            | 4.30          | 71            |
| SCI0402S-4N7 $\square$ F | J,K                 | 4.7      | 250               | 18     | 4700             | 0.130                 | 640             | 4.55          | 48            | 4.68          | 68            |
| SCI0402S-5N1 $\square$ F | J,K                 | 5.1      | 250               | 20     | 4800             | 0.083                 | 800             | 5.15          | 56            | 5.25          | 82            |
| SCI0402S-5N6 $\square$ F | J,K                 | 5.6      | 250               | 20     | 4800             | 0.083                 | 760             | 5.16          | 54            | 5.28          | 81            |
| SCI0402S-6N2 $\square$ F | J,K                 | 6.2      | 250               | 20     | 4800             | 0.083                 | 760             | 6.16          | 52            | 6.37          | 76            |
| SCI0402S-6N8 $\square$ F | J,K                 | 6.8      | 250               | 20     | 4800             | 0.083                 | 680             | 6.56          | 63            | 6.93          | 78            |
| SCI0402S-7N5 $\square$ F | J,K                 | 7.5      | 250               | 22     | 4800             | 0.104                 | 680             | 7.91          | 60            | 8.22          | 88            |
| SCI0402S-8N2 $\square$ F | J,K                 | 8.2      | 250               | 22     | 4400             | 0.104                 | 680             | 8.50          | 57            | 8.85          | 84            |
| SCI0402S-8N7 $\square$ F | J,K                 | 8.7      | 250               | 18     | 4100             | 0.200                 | 480             | 8.78          | 54            | 9.21          | 73            |
| SCI0402S-9N0 $\square$ F | J,K                 | 9.0      | 250               | 22     | 4160             | 0.104                 | 680             | 9.07          | 62            | 9.53          | 78            |
| SCI0402S-9N5 $\square$ F | J,K                 | 9.5      | 250               | 18     | 4000             | 0.200                 | 480             | 9.42          | 54            | 9.98          | 69            |
| SCI0402S-10N $\square$ F | K, J, G             | 10       | 250               | 21     | 3900             | 0.195                 | 480             | 9.80          | 50            | 10.10         | 67            |
| SCI0402S-11N $\square$ F | K, J, G             | 11       | 250               | 24     | 3680             | 0.120                 | 640             | 10.70         | 52            | 11.20         | 78            |



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## 6. ELECTRICAL CHARACTERISTICS :

| Part No.       | Tolerance Available | L (nH) | Test Freq (MHz) | Q Min. | SRF (MHz) Min. | DCR ( $\Omega$ ) Max. | IDC (mA) Max. | 900MHz L Typ. | 900MHz Q Typ. | 1.7GHz L Typ. | 1.7GHz Q Typ. |
|----------------|---------------------|--------|-----------------|--------|----------------|-----------------------|---------------|---------------|---------------|---------------|---------------|
| SCI0402S-12N□F | K, J, G             | 12     | 250             | 24     | 3600           | 0.120                 | 640           | 11.90         | 53            | 12.70         | 71            |
| SCI0402S-13N□F | K, J, G             | 13     | 250             | 24     | 3450           | 0.210                 | 440           | 13.40         | 51            | 14.60         | 57            |
| SCI0402S-15N□F | K, J, G             | 15     | 250             | 24     | 3280           | 0.172                 | 560           | 14.60         | 55            | 15.50         | 77            |
| SCI0402S-16N□F | K, J, G             | 16     | 250             | 24     | 3100           | 0.220                 | 560           | 16.60         | 46            | 18.80         | 47            |
| SCI0402S-18N□F | K, J, G             | 18     | 250             | 25     | 3100           | 0.230                 | 420           | 18.30         | 57            | 20.30         | 62            |
| SCI0402S-19N□F | K, J, G             | 19     | 250             | 24     | 3040           | 0.202                 | 480           | 19.10         | 50            | 21.10         | 67            |
| SCI0402S-20N□F | K, J, G             | 20     | 250             | 25     | 3000           | 0.250                 | 420           | 20.70         | 52            | 23.70         | 53            |
| SCI0402S-22N□F | K, J, G             | 22     | 250             | 25     | 2800           | 0.300                 | 400           | 23.20         | 53            | 26.80         | 53            |
| SCI0402S-23N□F | K, J, G             | 23     | 250             | 24     | 2720           | 0.300                 | 400           | 23.80         | 49            | 26.90         | 64            |
| SCI0402S-24N□F | K, J, G             | 24     | 250             | 25     | 2700           | 0.300                 | 400           | 25.10         | 51            | 29.50         | 50            |
| SCI0402S-27N□F | K, J, G             | 27     | 250             | 24     | 2480           | 0.300                 | 400           | 28.70         | 49            | 33.50         | 63            |
| SCI0402S-30N□F | K, J, G             | 30     | 250             | 25     | 2350           | 0.350                 | 400           | 31.10         | 46            | 38.50         | 39            |
| SCI0402S-33N□F | K, J, G             | 33     | 250             | 24     | 2350           | 0.350                 | 400           | 34.90         | 31            | 41.70         | 32            |
| SCI0402S-36N□F | K, J, G             | 36     | 250             | 24     | 2320           | 0.440                 | 320           | 39.50         | 44            | 48.40         | 53            |
| SCI0402S-39N□F | K, J, G             | 39     | 250             | 25     | 2100           | 0.550                 | 200           | 41.70         | 47            | 50.20         | 45            |
| SCI0402S-40N□F | K, J, G             | 40     | 250             | 24     | 2240           | 0.500                 | 320           | 39.00         | 44            | 47.40         | 33            |
| SCI0402S-43N□F | K, J, G             | 43     | 250             | 25     | 2030           | 0.810                 | 100           | 45.80         | 46            | 61.60         | 34            |
| SCI0402S-47N□F | K, J, G             | 47     | 250             | 25     | 2100           | 0.830                 | 150           | 50.00         | 38            | 55.80         | 37            |
| SCI0402S-51N□F | K, J, G             | 51     | 250             | 25     | 1750           | 0.820                 | 100           | 50.40         | 47            | 59.40         | 37            |
| SCI0402S-56N□F | K, J, G             | 56     | 250             | 25     | 1760           | 0.970                 | 100           | 57.40         | 49            | 72.40         | 40            |
| SCI0402S-68N□F | K, J, G             | 68     | 250             | 22     | 1620           | 1.120                 | 100           | 69.60         | 45            | 83.40         | 38            |
| SCI0402S-82N□F | K, J, G             | 82     | 250             | 22     | 1260           | 1.550                 | 50            | -             | -             | -             | -             |
| SCI0402S-R10□F | K, J, G             | 100    | 250             | 22     | 1160           | 2.000                 | 30            | -             | -             | -             | -             |
| SCI0402S-R12□F | K, J, G             | 120    | 250             | 20     | >1800          | 2.660                 | 50            | -             | -             | -             | -             |

Inductance tolerance :

□ : G :  $\pm 2\%$ J :  $\pm 5\%$ K :  $\pm 10\%$ 

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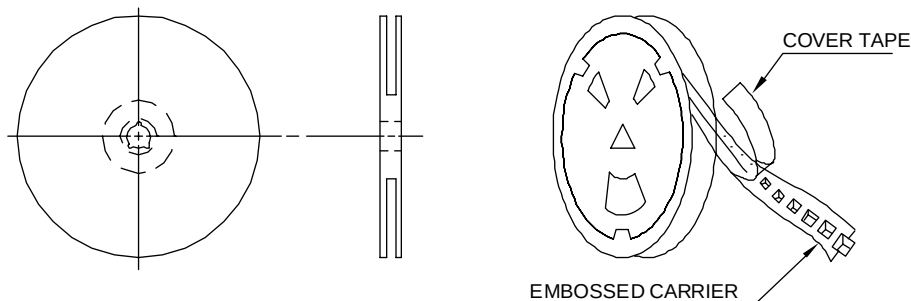
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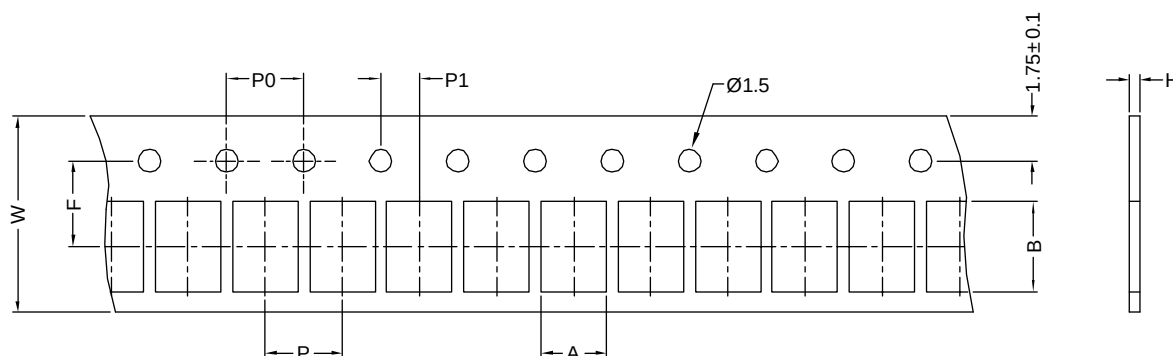
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### 7. PACKAGING INFORMATION :

Reel Configuration :



Paper Tape :



Dimension (unit: mm)

| Series   | A    | B    | H    | F    | P    | P0   | P1   | W    | Qty            |
|----------|------|------|------|------|------|------|------|------|----------------|
| SCI0402S | 0.72 | 1.19 | 0.60 | 3.50 | 2.00 | 4.00 | 2.00 | 8.00 | 4000pcs / reel |
| SCI0603S | 1.35 | 1.95 | 0.95 | 3.50 | 4.00 | 4.00 | 2.00 | 8.00 | 4000pcs / reel |

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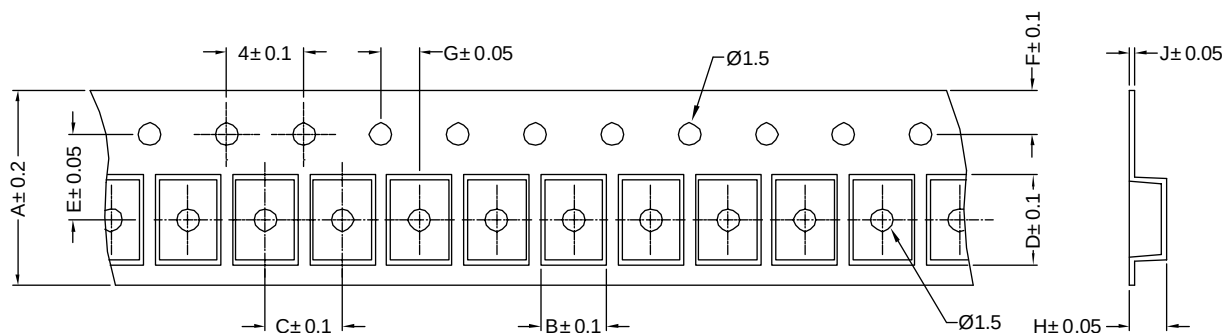
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Embossed Carrier Tape :



Dimension (unit: mm)

| Series    | A | B    | C | D    | E   | F    | G | H    | J    | Qty            |
|-----------|---|------|---|------|-----|------|---|------|------|----------------|
| SCI0805S  | 8 | 1.85 | 4 | 2.30 | 3.5 | 1.75 | 2 | 1.45 | 0.23 | 2000pcs / reel |
| SCI0805LP | 8 | 1.80 | 4 | 2.30 | 3.5 | 1.75 | 2 | 0.90 | 0.23 | 2000pcs / reel |
| SCI0805HQ | 8 | 1.85 | 4 | 2.30 | 3.5 | 1.75 | 2 | 1.45 | 0.23 | 2000pcs / reel |
| SCI1008S  | 8 | 2.70 | 4 | 2.80 | 3.5 | 1.75 | 2 | 2.00 | 0.23 | 2000pcs / reel |
| SCI1008LP | 8 | 2.70 | 4 | 2.80 | 3.5 | 1.75 | 2 | 1.50 | 0.23 | 2000pcs / reel |
| SCI1008HQ | 8 | 2.70 | 4 | 2.80 | 3.5 | 1.75 | 2 | 2.00 | 0.23 | 2000pcs / reel |



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