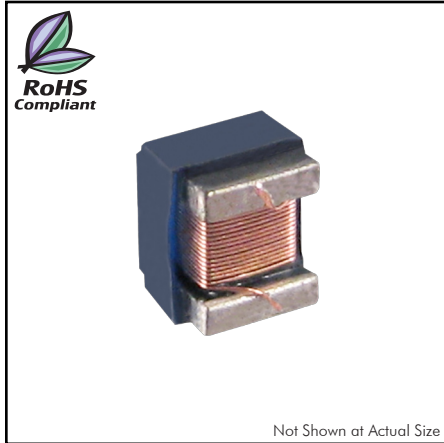


## CT1008LSCF

### Series

From 0.005  $\mu\text{H}$  to 100  $\mu\text{H}$



#### CHARACTERISTICS

**Description:** SMD ferrite core wire-wound chip inductor.

**Applications:** LC resonant circuits such as oscillator and signal generators, impedance matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

**Operating Temperature:** -25°C to +85°C

**Inductance Tolerance:**  $\pm 5\%$  &  $\pm 10\%$

**Testing:** Inductance and Q are tested on an HP4286A at specified frequency.

**Packaging:** Tape & Reel.

**Miscellaneous:** RoHS Compliant.

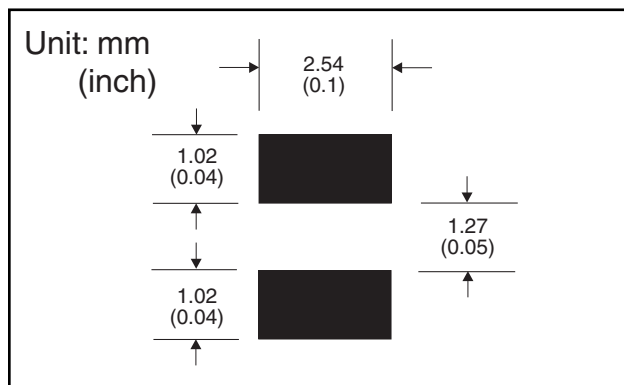
**Marking:** Parts are marked with color dots in nano Henries.

Example: 10 $\mu\text{H}$  = 10000nH ← marking would be Brown, Black, Orange(103).

**Additional Information:** Additional electrical & physical information available upon request

**Samples available. See website for ordering information.**

#### PAD LAYOUT



#### SPECIFICATIONS

Please specify tolerance code when ordering.  
CT1008LSCF-22N\_ ← J =  $\pm 5\%$ , K =  $\pm 10\%$

| Part Number     | Inductance ( $\mu\text{H}$ ) | L Test Freq. (MHz) | Q Fact. Min. | Q Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. ( $\Omega$ ) | Rated DC (mA) |
|-----------------|------------------------------|--------------------|--------------|--------------------|----------------|-----------------------|---------------|
| CT1008LSCF-5N0K | .005                         | 100                | 10           | 100                | 3000           | .25                   | 2000          |
| CT1008LSCF-10NK | .010                         | 100                | 10           | 100                | 2500           | .25                   | 1800          |
| CT1008LSCF-12NK | .012                         | 100                | 15           | 100                | 2400           | .26                   | 1700          |
| CT1008LSCF-15NK | .015                         | 100                | 15           | 100                | 2300           | .28                   | 1600          |
| CT1008LSCF-18NK | .018                         | 100                | 15           | 100                | 2200           | .30                   | 1550          |
| CT1008LSCF-22N_ | .022                         | 100                | 20           | 100                | 2100           | .35                   | 1500          |
| CT1008LSCF-27N_ | .027                         | 100                | 20           | 100                | 2000           | .40                   | 1450          |
| CT1008LSCF-33N_ | .033                         | 100                | 30           | 100                | 1600           | .42                   | 1400          |
| CT1008LSCF-39N_ | .039                         | 100                | 35           | 100                | 1500           | .45                   | 1350          |
| CT1008LSCF-47N_ | .047                         | 100                | 35           | 100                | 1400           | .50                   | 1300          |
| CT1008LSCF-56N_ | .056                         | 100                | 35           | 100                | 1300           | .60                   | 1250          |
| CT1008LSCF-68N_ | .068                         | 100                | 35           | 100                | 1200           | .65                   | 1240          |
| CT1008LSCF-82N_ | .082                         | 100                | 35           | 100                | 1100           | .75                   | 1230          |
| CT1008LSCF-R10_ | .10                          | 100                | 35           | 100                | 800            | .80                   | 1220          |
| CT1008LSCF-R12_ | .12                          | 25.2               | 30           | 25.2               | 700            | .30                   | 900           |
| CT1008LSCF-R15_ | .15                          | 25.2               | 30           | 25.2               | 550            | .35                   | 900           |
| CT1008LSCF-R18_ | .18                          | 25.2               | 30           | 25.2               | 500            | .40                   | 850           |
| CT1008LSCF-R22_ | .22                          | 25.2               | 30           | 25.2               | 450            | .50                   | 840           |
| CT1008LSCF-R27_ | .27                          | 25.2               | 30           | 25.2               | 425            | .55                   | 830           |
| CT1008LSCF-R33_ | .33                          | 25.2               | 30           | 25.2               | 400            | .60                   | 820           |
| CT1008LSCF-R39_ | .39                          | 25.2               | 30           | 25.2               | 375            | .65                   | 810           |
| CT1008LSCF-R47_ | .47                          | 25.2               | 30           | 25.2               | 350            | .68                   | 800           |
| CT1008LSCF-R56_ | .56                          | 25.2               | 30           | 25.2               | 325            | .75                   | 800           |
| CT1008LSCF-R68_ | .68                          | 25.2               | 30           | 25.2               | 300            | .85                   | 800           |
| CT1008LSCF-R82_ | .82                          | 25.2               | 30           | 25.2               | 260            | 1.0                   | 800           |
| CT1008LSCF-1R0_ | 1.0                          | 7.96               | 25           | 7.96               | 245            | 1.1                   | 800           |
| CT1008LSCF-1R2_ | 1.2                          | 7.96               | 25           | 7.96               | 230            | 1.2                   | 790           |
| CT1008LSCF-1R5_ | 1.5                          | 7.96               | 25           | 7.96               | 182            | 1.3                   | 750           |
| CT1008LSCF-1R8_ | 1.8                          | 7.96               | 25           | 7.96               | 135            | 1.5                   | 750           |
| CT1008LSCF-2R2_ | 2.2                          | 7.96               | 25           | 7.96               | 105            | 1.6                   | 750           |
| CT1008LSCF-2R7_ | 2.7                          | 7.96               | 25           | 7.96               | 70             | 1.7                   | 740           |
| CT1008LSCF-3R3_ | 3.3                          | 7.96               | 25           | 7.96               | 55             | 1.9                   | 730           |
| CT1008LSCF-3R9_ | 3.9                          | 7.96               | 25           | 7.96               | 48             | 2.1                   | 700           |
| CT1008LSCF-4R7_ | 4.7                          | 7.96               | 25           | 7.96               | 43             | 2.3                   | 650           |
| CT1008LSCF-5R6_ | 5.6                          | 7.96               | 20           | 7.96               | 42             | 2.5                   | 640           |
| CT1008LSCF-6R8_ | 6.8                          | 7.96               | 20           | 7.96               | 39             | 2.7                   | 630           |
| CT1008LSCF-8R2_ | 8.2                          | 7.96               | 20           | 7.96               | 36             | 3.1                   | 600           |
| CT1008LSCF-100_ | 10                           | 2.52               | 15           | 2.52               | 33             | 3.5                   | 600           |
| CT1008LSCF-120_ | 12                           | 2.52               | 15           | 2.52               | 30             | 3.8                   | 550           |
| CT1008LSCF-150_ | 15                           | 2.52               | 15           | 2.52               | 26             | 4.4                   | 430           |
| CT1008LSCF-180_ | 18                           | 2.52               | 15           | 2.52               | 24             | 4.8                   | 400           |
| CT1008LSCF-220_ | 22                           | 2.52               | 15           | 2.52               | 22             | 5.5                   | 400           |
| CT1008LSCF-270_ | 27                           | 2.52               | 15           | 2.52               | 21             | 6.3                   | 360           |
| CT1008LSCF-330_ | 33                           | 2.52               | 15           | 2.52               | 20             | 7.1                   | 350           |
| CT1008LSCF-390_ | 39                           | 2.52               | 10           | 2.52               | 18             | 9.5                   | 330           |
| CT1008LSCF-470_ | 47                           | 2.52               | 10           | 2.52               | 17             | 11.1                  | 300           |
| CT1008LSCF-560_ | 56                           | 2.52               | 10           | 2.52               | 16             | 12.1                  | 270           |
| CT1008LSCF-680_ | 68                           | 2.52               | 10           | 2.52               | 15             | 16.6                  | 250           |
| CT1008LSCF-820_ | 82                           | 2.52               | 10           | 2.52               | 13             | 19                    | 200           |
| CT1008LSCF-101_ | 100                          | 0.796              | 8            | 0.796              | 12             | 21                    | 120           |

#### PHYSICAL DIMENSIONS

| Size   | A Max. | B Max. | C Max. | D     | E     | F     |
|--------|--------|--------|--------|-------|-------|-------|
| mm     | 2.92   | 2.79   | 2.1    | 0.51  | 1.52  | 0.51  |
| inches | 0.113  | 0.108  | 0.081  | 0.019 | 0.059 | 0.019 |

