

## CT1008LDLSF Series

From 0.9 $\mu$ H to 10 $\mu$ H



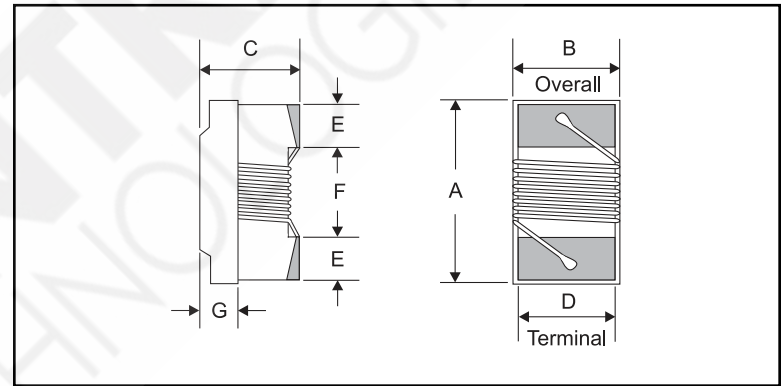
### SPECIFICATIONS

Please specify tolerance code when ordering.  
CT1008LDLSF-1R3\_ ← J =  $\pm$ 5%, K =  $\pm$ 10%

| Part Number      | Ind. ( $\mu$ H) | Test Freq. (MHz) | Q Fact. Typ. | SRF Min. (MHz) | DCR Max. ( $\Omega$ ) | IDC Typ. (mA) | I <sub>rms</sub> Max. (mA) | Tol. (%) |
|------------------|-----------------|------------------|--------------|----------------|-----------------------|---------------|----------------------------|----------|
| CT1008LDLSF-R90K | 0.9             | 2.5              | 25           | 300            | 0.1                   | 1400          | 1300                       | 10       |
| CT1008LDLSF-1R1K | 1.1             | 2.5              | 24           | 275            | 0.105                 | 1300          | 1200                       | 10       |
| CT1008LDLSF-1R3_ | 1.3             | 2.5              | 24           | 220            | 0.11                  | 1200          | 1100                       | 5 / 10   |
| CT1008LDLSF-1R5_ | 1.5             | 2.5              | 22           | 210            | 0.125                 | 1100          | 1000                       | 5 / 10   |
| CT1008LDLSF-1R9_ | 1.9             | 2.5              | 22           | 165            | 0.14                  | 1000          | 1000                       | 5 / 10   |
| CT1008LDLSF-2R2_ | 2.2             | 2.5              | 21           | 75             | 0.155                 | 950           | 950                        | 5 / 10   |
| CT1008LDLSF-2R7_ | 2.7             | 2.5              | 22           | 57             | 0.19                  | 800           | 900                        | 5 / 10   |
| CT1008LDLSF-3R3_ | 3.3             | 2.5              | 21           | 54             | 0.21                  | 750           | 800                        | 5 / 10   |
| CT1008LDLSF-3R9_ | 3.9             | 2.5              | 21           | 50             | 0.22                  | 700           | 800                        | 5 / 10   |
| CT1008LDLSF-4R7_ | 4.7             | 2.5              | 27           | 48             | 0.435                 | 700           | 650                        | 5 / 10   |
| CT1008LDLSF-5R8_ | 5.8             | 2.5              | 21           | 33             | 0.28                  | 550           | 750                        | 5 / 10   |
| CT1008LDLSF-6R8_ | 6.8             | 2.5              | 20           | 28             | 0.315                 | 500           | 700                        | 5 / 10   |
| CT1008LDLSF-8R2_ | 8.2             | 2.5              | 20           | 24             | 0.395                 | 500           | 650                        | 5 / 10   |
| CT1008LDLSF-100_ | 10              | 2.5              | 22           | 20             | 0.48                  | 450           | 550                        | 5 / 10   |

### PHYSICAL DIMENSIONS

| Size   | A Max. | B Max. | C Max. | D     | E     | F     | G     |
|--------|--------|--------|--------|-------|-------|-------|-------|
| mm     | 2.99   | 2.50   | 2.20   | 2.03  | 0.51  | 1.52  | 0.70  |
| inches | 0.118  | 0.098  | 0.087  | 0.080 | 0.020 | 0.060 | 0.028 |



### CHARACTERISTICS

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

**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 105°C (including self-temperature rise)

**IDC:** For inductance drop 10% from its value with current.

**I<sub>rms</sub>:** For a 40°C temperature rise from 25°C ambient with current.

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

**Testing:** Inductance and Q are tested on an Agilent E4991A/HP4287A+16197A

**Packaging:** Tape & Reel.

**Miscellaneous:** RoHS Compliant.

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

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

### PAD LAYOUT

