
LSF1008 Series Type

SMD Inductor for Signal Line

FEATURES

- Utilizing a miniaturized winding structure.
- These products provide high Q characteristics.
- Resin-coated surface enables excellent mounting
- Low DC resistance design is ideal for low loss.
- Precision inductance tolerance is available.



APPLICATIONS

- Personal computers, Hard disk drives
- xDSL modem and Cable modem
- Digital camera and other electronic equipment

PRODUCT IDENTIFICATION

LSF 1008 - 1R0 K - T

(1) (2) (3) (4) (5)

(1) Product name

(4) Tolerance

(2) Dimension

J : $\pm 5\%$; K : $\pm 10\%$

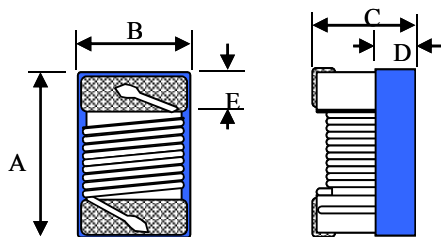
(3) Inductance

(6) Taping style

1R0 : 1.0uH ; 100 : 10uH

T : Taping ; None : Bulk

SHAPES AND DIMENSIONS(Unit:mm)



A max. : 2.90 mm

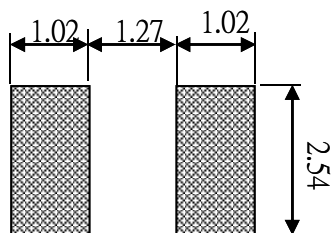
B max. : 2.54 mm

C max. : 2.03 mm

D ref. : 1.30 mm

E : 0.5 ± 0.1 mm

RECOMMENDED FOOTPRINT(Unit:mm)



LSF1008 Series Type

SMD Inductor for Power Line

ELECTRICAL CHARACTERISTICS

| Our Product Part Number | Inductance (uH)/MHz | Inductance Tolerance | Q/MHz Min. | SRF(Min.) (MHz) | RDC (Ω)Max. | Idc Max. (mA) | Color Coding | | |
|----------------------------|------------------------|-------------------------|---------------|--------------------|----------------|------------------|--------------|--------|--------|
| | | | | | | | 1st | 2nd | 3rd |
| LSF1008-R18□-T | 0.18/25 | 10,5 | 30/25 | 930 | 0.30 | 960 | Brown | Gray | Brown |
| LSF1008-R20□-T | 0.20/25 | 10,5 | 30/25 | 735 | 0.30 | 960 | Red | Black | Brown |
| LSF1008-R22□-T | 0.22/25 | 10,5 | 27/25 | 750 | 0.40 | 880 | Red | Red | Brown |
| LSF1008-R33□-T | 0.33/25 | 10,5 | 30/25 | 600 | 0.42 | 900 | Orange | Orange | Brown |
| LSF1008-R39□-T | 0.39/25 | 10,5 | 30/25 | 480 | 0.45 | 920 | Orgnge | White | Brown |
| LSF1008-R56□-T | 0.56/25 | 10,5 | 30/25 | 460 | 0.55 | 900 | Green | Blue | Brown |
| LSF1008-R62□-T | 0.62/25 | 10,5 | 30/25 | 460 | 0.55 | 900 | Blue | Red | Brown |
| LSF1008-R68□-T | 0.68/25 | 10,5 | 30/25 | 420 | 0.55 | 880 | Blue | Gray | Brown |
| LSF1008-R75□-T | 0.75/25 | 10,5 | 30/25 | 420 | 0.65 | 880 | Violet | Green | Brown |
| LSF1008-R82□-T | 0.82/25 | 10,5 | 30/25 | 380 | 0.65 | 840 | Gray | Red | Brown |
| LSF1008-R91□-T | 0.91/25 | 10,5 | 30/25 | 400 | 0.65 | 840 | White | Brown | Brown |
| LSF1008-1R0□-T | 1.0/7.9 | 10,5 | 25/7.9 | 300 | 0.60 | 800 | Brown | Black | Red |
| LSF1008-1R2□-T | 1.2/7.9 | 10,5 | 25/7.9 | 280 | 0.74 | 800 | Brown | Red | Red |
| LSF1008-1R5□-T | 1.5/7.9 | 10,5 | 25/7.9 | 245 | 0.85 | 780 | Brown | Green | Red |
| LSF1008-1R8□-T | 1.8/7.9 | 10,5 | 25/7.9 | 240 | 0.92 | 780 | Brown | Gray | Red |
| LSF1008-2R2□-T | 2.2/7.9 | 10,5 | 25/7.9 | 205 | 1.10 | 760 | Red | Red | Red |
| LSF1008-2R7□-T | 2.7/7.9 | 10,5 | 25/7.9 | 187 | 1.22 | 760 | Red | Violet | Red |
| LSF1008-3R3□-T | 3.3/7.9 | 10,5 | 25/7.9 | 165 | 1.37 | 740 | Orgnge | Orgnge | Red |
| LSF1008-3R9□-T | 3.9/7.9 | 10,5 | 25/7.9 | 144 | 1.66 | 700 | Orgnge | White | Red |
| LSF1008-4R7□-T | 4.7/7.9 | 10,5 | 25/7.9 | 110 | 1.68 | 660 | Yellow | Violet | Red |
| LSF1008-5R6□-T | 5.6/7.9 | 10,5 | 25/7.9 | 88 | 1.75 | 640 | Green | Blue | Red |
| LSF1008-6R8□-T | 6.8/7.9 | 10,5 | 25/7.9 | 70 | 1.85 | 640 | Blue | Gray | Red |
| LSF1008-8R2□-T | 8.2/7.9 | 10,5 | 25/7.9 | 57 | 2.00 | 600 | Gray | Red | Red |
| LSF1008-100□-T | 10/2.5 | 10,5 | 15/2.5 | 55 | 2.32 | 600 | Brown | Black | Orange |
| LSF1008-120□-T | 12/2.5 | 10,5 | 15/2.5 | 52 | 2.99 | 560 | Brown | Red | Orange |
| LSF1008-150□-T | 15/2.5 | 10,5 | 15/2.5 | 49 | 3.42 | 480 | Brown | Green | Orange |
| LSF1008-180□-T | 18/2.5 | 10,5 | 15/2.5 | 48 | 4.65 | 420 | Brown | Gray | Orange |
| LSF1008-220□-T | 22/2.5 | 10,5 | 15/2.5 | 25 | 5.12 | 420 | Red | Red | Orange |
| LSF1008-270□-T | 27/2.5 | 10,5 | 15/2.5 | 23 | 5.76 | 420 | Red | Violet | Orange |
| LSF1008-330□-T | 33/2.5 | 10,5 | 15/2.5 | 17 | 6.44 | 400 | Orange | Orange | Orange |
| LSF1008-390□-T | 39/2.5 | 10,5 | 15/2.5 | 15 | 6.85 | 380 | Orange | White | Orange |
| LSF1008-470□-T | 47/2.5 | 10,5 | 14/2.5 | 13 | 9.94 | 260 | Yellow | Violet | Orange |
| LSF1008-560□-T | 56/2.5 | 10,5 | 14/2.5 | 10 | 10.70 | 280 | Green | Blue | Orange |
| LSF1008-680□-T | 68/2.5 | 10,5 | 14/2.5 | 8 | 12.80 | 260 | Blue | Gray | Orange |
| LSF1008-820□-T | 82/2.5 | 10,5 | 14/2.5 | 8 | 18.30 | 240 | Gray | Red | Orange |
| LSF1008-101□-T | 100/1.0 | 10,5 | 8/1.0 | 7 | 19.60 | 200 | Brown | Black | Yellow |

1. When ordering, please specify tolerance and packaging codes. Ex: LSF1008-100J-T

Tolerance : J = ±5% , K = ±10%

Packaging : Clear tape and reel { standard }.

2. L , Q : Agilent/HP E4991A+ Agilent/HP16197A

(The electrical specification test by the smallest gap position) or HP16193A

3. SRF : Agilent/HP E4991A+ Agilent/HP 16197A

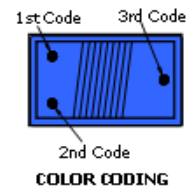
(The electrical specification test by the smallest gap position) or HP16193A

4. Rdc : DIGITAL MILLIOHM METER Chroma 16502, or equivalent.

5. Idc for Inductance drop 10% from its value without current.

6. Operating temperature range from -25°C to 85°C.

7. Packaging quantity: 2000 pcs/reel

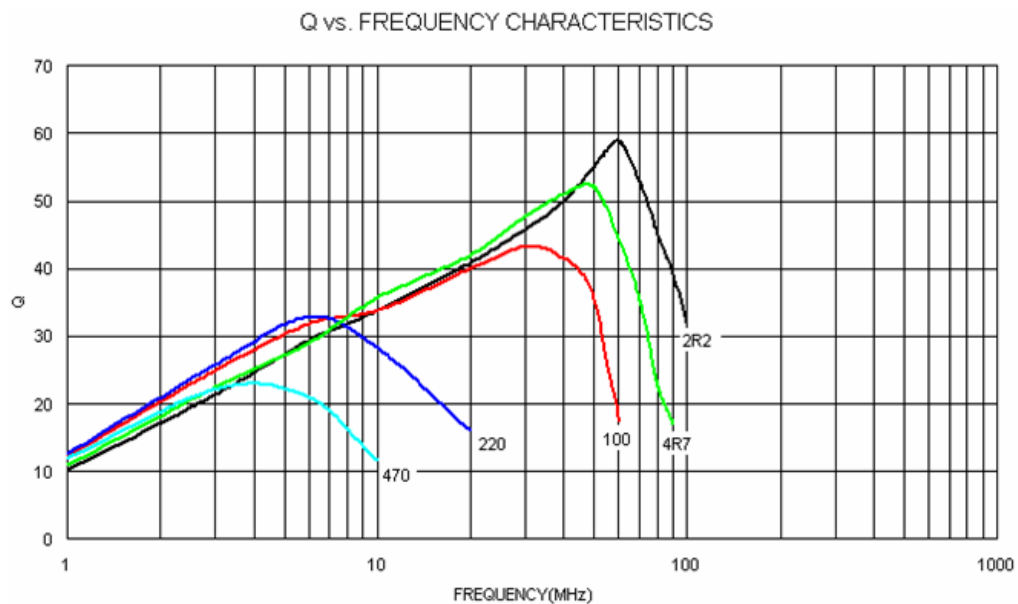
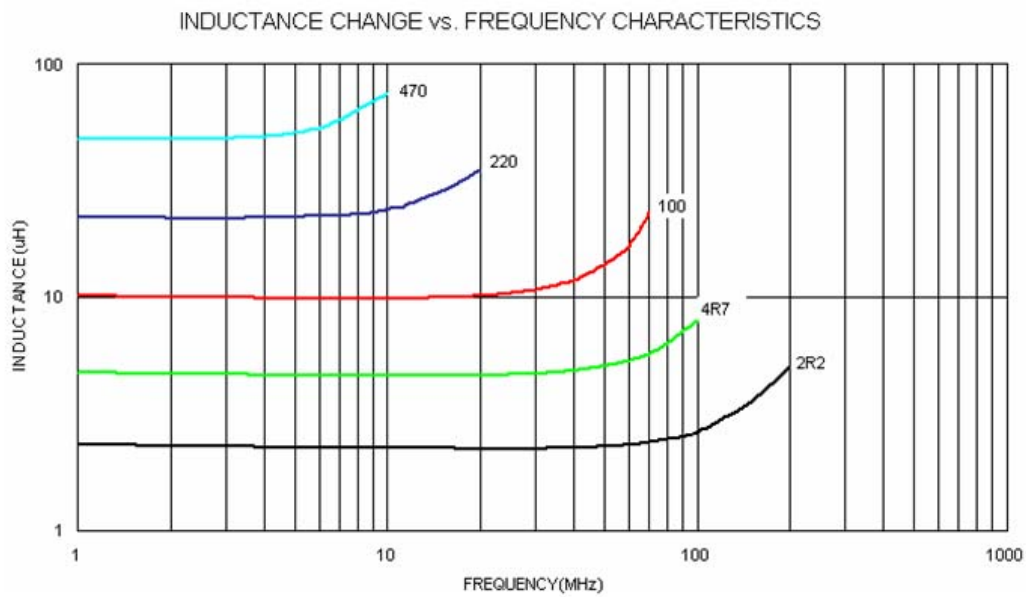


LSF1008 Series Type

SMD Inductor for Signal Line

ELECTRICAL CHARACTERISTICS

Characteristics(L,Q vs. Frequency)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Fixed Inductors](#) category:

Click to view products by [EMTEK](#) manufacturer:

Other Similar products are found below :

[CR32NP-100KC](#) [CR32NP-151KC](#) [CR32NP-180KC](#) [CR32NP-181KC](#) [CR32NP-1R5MC](#) [CR32NP-390KC](#) [CR32NP-3R9MC](#) [CR32NP-680KC](#) [CR32NP-820KC](#) [CR32NP-8R2MC](#) [CR43NP-390KC](#) [CR43NP-560KC](#) [CR43NP-680KC](#) [CR54NP-181KC](#) [CR54NP-470LC](#) [CR54NP-820KC](#) [CR54NP-8R5MC](#) [70F224AI](#) [MGDQ4-00004-P](#) [MHL1ECTTP18NJ](#) [MHQ1005P10NJ](#) [MHQ1005P1N0S](#) [MHQ1005P2N4S](#) [MHQ1005P3N6S](#) [MHQ1005P5N1S](#) [MHQ1005P8N2J](#) [PE-51506NL](#) [PE-53601NL](#) [PE-53602NL](#) [PE-53630NL](#) [PE-53824SNLT](#) [PE-92100NL](#) [PG0434.801NLT](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2LP-R47-R](#) [HC2-R47-R](#) [HC3-2R2-R](#) [HCF1305-3R3-R](#) [1206CS-151XG](#) [RCH664NP-140L](#) [RCH664NP-4R7M](#) [RCH8011NP-221L](#) [RCP1317NP-332L](#) [RCP1317NP-391L](#)