
LSF1210 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 1210 - 1R0 K - T

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

(1) Product name

(2) Dimension

(3) Inductance

1R0 : 1.0uH ; 100 : 10uH

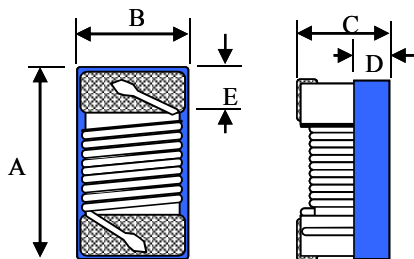
(4) Tolerance

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

(6) Taping style

T : Taping ; None : Bulk

SHAPES AND DIMENSIONS(Unit:mm)



A max. : 3.60. mm

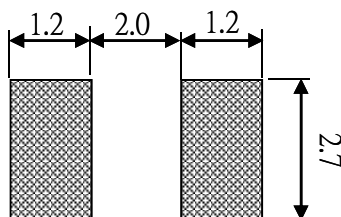
B max. : 2.90 mm

C max. : 2.50 mm

D ref. : 1.10 mm

E : 0.5 ± 0.1 mm

RECOMMENDED FOOTPRINT(Unit:mm)



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ELECTRICAL CHARACTERISTICS

| Our Product Part Number | Inductance (uH)/MHz | Inductance Tolerance | Q/MHz Min. | SRF(Typ.) (MHz) | RDC (Ω)Max. | Idc Max. (mA) | Color Coding | | |
|----------------------------|------------------------|-------------------------|---------------|--------------------|----------------|------------------|--------------|--------|--------|
| | | | | | | | 1st | 2nd | 3rd |
| LSF1210-R12□-T | 0.12/25 | K | 40/25 | 1000 | 0.07 | 2000 | Brown | Red | Brown |
| LSF1210-R22□-T | 0.22/25 | J,K | 40/25 | 600 | 0.18 | 1700 | Red | Red | Brown |
| LSF1210-R27□-T | 0.27/25 | J,K | 40/25 | 600 | 0.23 | 1600 | Red | Violet | Brown |
| LSF1210-R33□-T | 0.33/25 | J,K | 40/25 | 500 | 0.27 | 1500 | Orange | Orange | Brown |
| LSF1210-R39□-T | 0.39/25 | J,K | 40/25 | 500 | 0.30 | 1500 | Orange | White | Brown |
| LSF1210-R82□-T | 0.82/25 | J,K | 35/25 | 340 | 0.38 | 1300 | Gray | Red | Brown |
| LSF1210-1R0□-T | 1.0/7.9 | J,K | 35/7.9 | 320 | 0.42 | 1200 | Brown | Black | Red |
| LSF1210-1R2□-T | 1.2/7.9 | J,K | 35/7.9 | 280 | 0.47 | 1100 | Brown | Red | Red |
| LSF1210-1R5□-T | 1.5/7.9 | J,K | 35/7.9 | 250 | 0.50 | 1100 | Brown | Green | Red |
| LSF1210-1R8□-T | 1.8/7.9 | J,K | 40/7.9 | 203 | 0.62 | 1000 | Brown | Gray | Red |
| LSF1210-2R2□-T | 2.2/7.9 | J,K | 33/7.9 | 200 | 0.65 | 1000 | Red | Red | Red |
| LSF1210-2R7□-T | 2.7/7.9 | J,K | 40/7.9 | 200 | 0.65 | 1000 | Red | Violet | Red |
| LSF1210-3R0□-T | 3.0/7.9 | J,K | 40/7.9 | 180 | 0.78 | 800 | Orange | Black | Red |
| LSF1210-3R3□-T | 3.3/7.9 | J,K | 30/7.9 | 146 | 0.83 | 1200 | Orange | Orange | Red |
| LSF1210-3R9□-T | 3.9/7.9 | J,K | 30/7.9 | 139 | 1.74 | 900 | Orange | White | Red |
| LSF1210-4R7□-T | 4.7/7.9 | J,K | 35/7.9 | 124 | 1.90 | 800 | Yellow | Violet | Red |
| LSF1210-5R6□-T | 5.6/7.9 | J,K | 30/7.9 | 114 | 2.05 | 700 | Green | Blue | Red |
| LSF1210-6R8□-T | 6.8/7.9 | J,K | 30/7.9 | 109 | 1.37 | 450 | Blue | Gray | Red |
| LSF1210-100□-T | 10/2.5 | J,K | 23/2.5 | 90 | 1.70 | 590 | Brown | Black | Orange |
| LSF1210-150□-T | 15/2.5 | J,K | 25/2.5 | 67 | 2.22 | 340 | Brown | Green | Orange |
| LSF1210-180□-T | 18/2.5 | J,K | 25/2.5 | 57 | 2.42 | 330 | Brown | Gray | Orange |
| LSF1210-220□-T | 22/2.5 | J,K | 25/2.5 | 48 | 2.66 | 300 | Red | Red | Orange |
| LSF1210-270□-T | 27/2.5 | J,K | 25/2.5 | 38 | 2.99 | 250 | Red | Violet | Orange |
| LSF1210-330□-T | 33/2.5 | J,K | 25/2.5 | 26 | 3.24 | 220 | Orange | Orange | Orange |
| LSF1210-390□-T | 39/2.5 | J,K | 25/2.5 | 24 | 3.61 | 195 | Orange | White | Orange |
| LSF1210-470□-T | 47/2.5 | J,K | 25/2.5 | 22 | 3.96 | 195 | Yellow | Violet | Orange |
| LSF1210-560□-T | 56/2.5 | J,K | 25/2.5 | 20 | 4.36 | 190 | Green | Blue | Orange |
| LSF1210-680□-T | 68/2.5 | J,K | 23/2.5 | 15 | 4.50 | 340 | Blue | Gray | Orange |
| LSF1210-820□-T | 82/2.5 | J,K | 23/2.5 | 15 | 5.95 | 280 | Gray | Red | Orange |
| LSF1210-101□-T | 100/1 | J,K | 15/1 | 14 | 6.62 | 250 | Brown | Black | Yellow |
| LSF1210-121□-T | 120/1 | J,K | 15/1 | 11 | 7.53 | 190 | Brown | Red | Yellow |
| LSF1210-151□-T | 150/1 | J,K | 15/1 | 11 | 8.29 | 135 | Brown | Green | Yellow |
| LSF1210-181□-T | 180/1 | J,K | 15/1 | 10 | 11.53 | 100 | Brown | Gray | Yellow |
| LSF1210-221□-T | 220/1 | J,K | 15/1 | 8 | 12.48 | 80 | Red | Red | Yellow |

1. When ordering, please specify tolerance and packaging codes. Ex: LSF1210-680K-T

Tolerance : J = ±5% , K = ±10%

Packaging : Clear tape and reel { standard }.

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

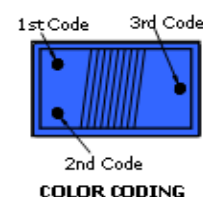
3. SRF : Agilent/HP E4991A+ Agilent/HP 16197A

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

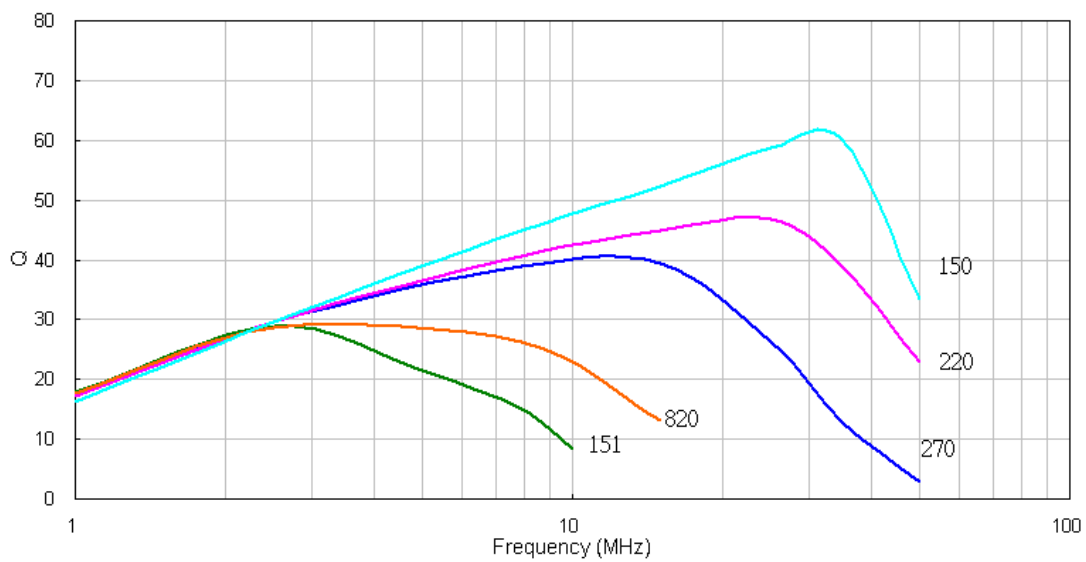
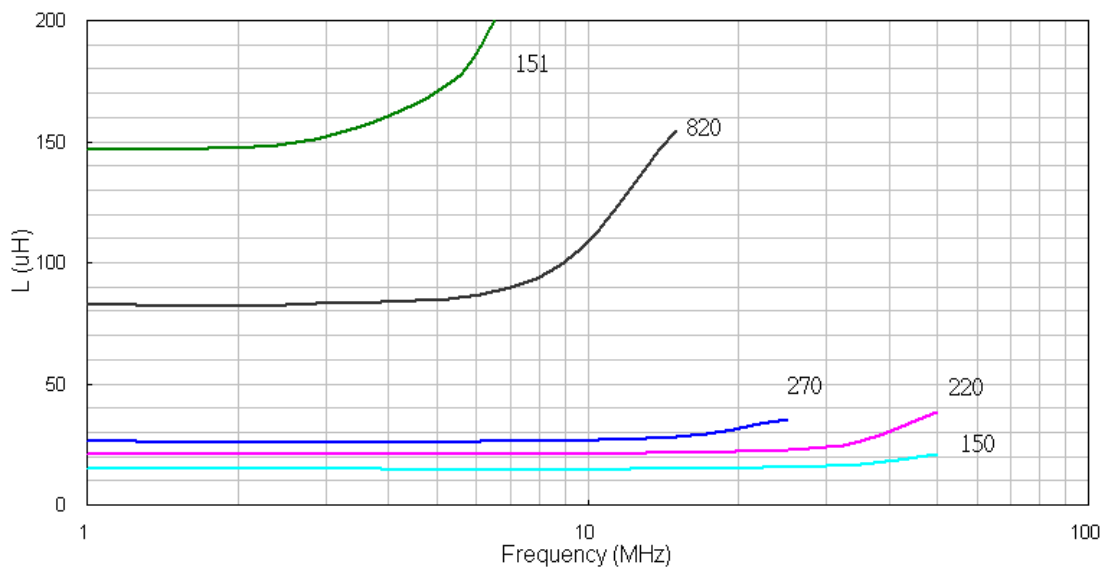


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ELECTRICAL CHARACTERISTICS

Characteristics(L,Q vs. Frequency)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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