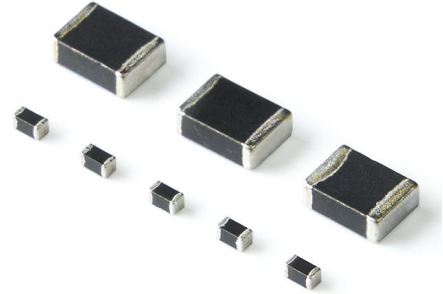


SPECIFICATION OF FLM□ SERIES

APPLICATIONS

- EMI suppression for various electric equipment by the addition of impedance to the circuit.
Suitable for all computer related products.
- To compose different LC filter with capacitor to modify signal wave-form , such as TV out in a notebook computer or audio out in a CD-ROM circuit.



ORDERING CODE

FLM□ - 321611 - R47 K T
 (1) (2) (3) (4)(5)

(1) PRODUCT TYPE CODE

FLM : Ferrite Chip Inductor Multilayer

□ : RoHS Code

(2) SIZE CODE

(3) INDUCTANCE CODE

Example : 47N=0.047μH

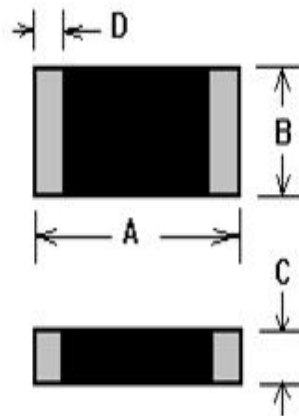
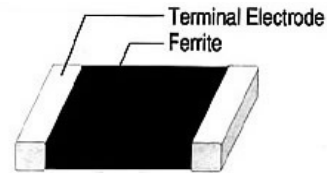
R47=0.47μH

4R7=4.7μH

(4) INDUCTANCE TOLERANCE

(K : ±10%, M : ±20%)

(5) TAPING



SHAPE & DIMENSIONS

UNIT:mm (inch)

| SIZE CODE | A | B | C | D |
|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| FLM□-160808 (0603) | 1.60±0.20 (0.063±0.008) | 0.80±0.20 (0.031±0.008) | 0.80±0.20 (0.031±0.008) | 0.30±0.20 (0.012±0.008) |
| FLM□-201209 (0805) | 2.00±0.20 (0.079±0.008) | 1.20±0.20 (0.047±0.008) | 0.90±0.20 (0.035±0.008) | 0.50±0.30 (0.020±0.012) |
| FLM□-201212 (0805) | 2.00±0.20 (0.079±0.008) | 1.20±0.20 (0.047±0.008) | 1.20±0.20 (0.047±0.008) | 0.50±0.30 (0.020±0.012) |
| FLM□-321611 (1206) | 3.20±0.20 (0.126±0.008) | 1.60±0.20 (0.063±0.008) | 1.10±0.20 (0.043±0.008) | 0.50±0.30 (0.020±0.012) |

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MULTILAYER CHIP INDUCTORS → FLM□-321611 SERIES

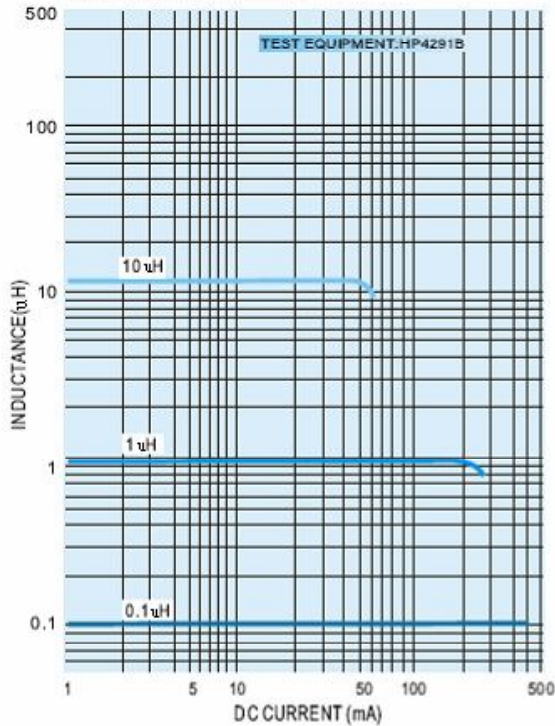
ELECTRICAL CHARACTERISTICS

| ORDERING CODE | L (μH) | Tolerance (±%) | Q (Min) | Test Frequency L/Q(MHz) | Self Resonant Frequency (MHz)TYP | DC Resistance (Ω)max | IDC (mA)max |
|-------------------|-----------|-------------------|------------|-------------------------------|---|-------------------------|----------------|
| FLM□-321611-47N□T | 0.047 | 10 / 20 | 20 | 50 | 320 | 0.15 | 300 |
| FLM□-321611-68N□T | 0.068 | 10 / 20 | 20 | 50 | 280 | 0.25 | 300 |
| FLM□-321611-R10□T | 0.10 | 10 / 20 | 30 | 25 | 235 | 0.25 | 250 |
| FLM□-321611-R12□T | 0.12 | 10 / 20 | 30 | 25 | 220 | 0.30 | 250 |
| FLM□-321611-R15□T | 0.15 | 10 / 20 | 30 | 25 | 200 | 0.30 | 250 |
| FLM□-321611-R18□T | 0.18 | 10 / 20 | 30 | 25 | 185 | 0.40 | 250 |
| FLM□-321611-R22□T | 0.22 | 10 / 20 | 30 | 25 | 170 | 0.40 | 250 |
| FLM□-321611-R27□T | 0.27 | 10 / 20 | 30 | 25 | 150 | 0.50 | 250 |
| FLM□-321611-R33□T | 0.33 | 10 / 20 | 30 | 25 | 145 | 0.60 | 250 |
| FLM□-321611-R39□T | 0.39 | 10 / 20 | 30 | 25 | 135 | 0.50 | 200 |
| FLM□-321611-R47□T | 0.47 | 10 / 20 | 30 | 25 | 125 | 0.60 | 200 |
| FLM□-321611-R56□T | 0.56 | 10 / 20 | 30 | 25 | 115 | 0.70 | 150 |
| FLM□-321611-R68□T | 0.68 | 10 / 20 | 30 | 25 | 105 | 0.80 | 150 |
| FLM□-321611-R82□T | 0.82 | 10 / 20 | 30 | 25 | 90 | 0.90 | 150 |
| FLM□-321611-1R0□T | 1.0 | 10 / 20 | 45 | 10 | 75 | 0.40 | 100 |
| FLM□-321611-1R2□T | 1.2 | 10 / 20 | 45 | 10 | 65 | 0.50 | 100 |
| FLM□-321611-1R5□T | 1.5 | 10 / 20 | 45 | 10 | 60 | 0.50 | 50 |
| FLM□-321611-1R8□T | 1.8 | 10 / 20 | 45 | 10 | 55 | 0.50 | 50 |
| FLM□-321611-2R2□T | 2.2 | 10 / 20 | 45 | 10 | 50 | 0.60 | 50 |
| FLM□-321611-2R7□T | 2.7 | 10 / 20 | 45 | 10 | 45 | 0.60 | 50 |
| FLM□-321611-3R3□T | 3.3 | 10 / 20 | 45 | 10 | 41 | 0.70 | 50 |
| FLM□-321611-3R9□T | 3.9 | 10 / 20 | 45 | 10 | 38 | 0.80 | 50 |
| FLM□-321611-4R7□T | 4.7 | 10 / 20 | 45 | 10 | 35 | 0.90 | 50 |
| FLM□-321611-5R6□T | 5.6 | 10 / 20 | 35 | 4 | 32 | 0.70 | 25 |
| FLM□-321611-6R8□T | 6.8 | 10 / 20 | 35 | 4 | 29 | 0.80 | 25 |
| FLM□-321611-8R2□T | 8.2 | 10 / 20 | 35 | 4 | 26 | 0.90 | 25 |
| FLM□-321611-100□T | 10 | 10 / 20 | 35 | 2 | 24 | 1.00 | 25 |
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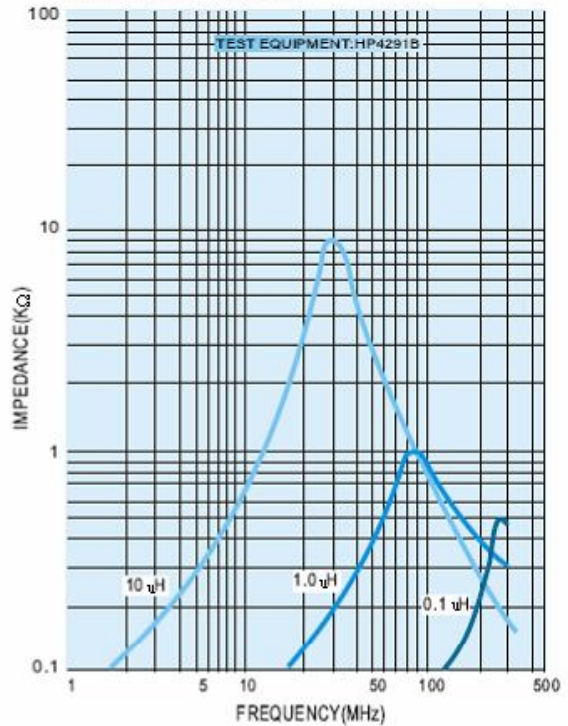
- 47N means 47nH or 0.047uH.
- 47N□, □ Means the inductance tolerance, K=±10%, M=±20%
- IDC:Based on Temperature increase 40°C
- Operating temperature range : -55 to +125°C (including self-heating)

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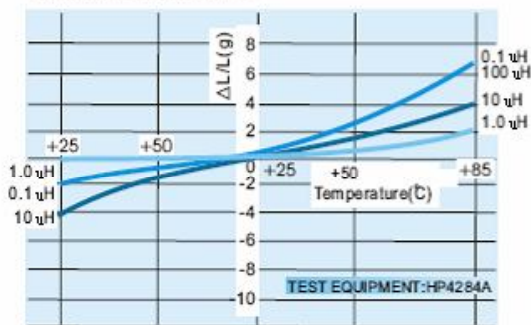
INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



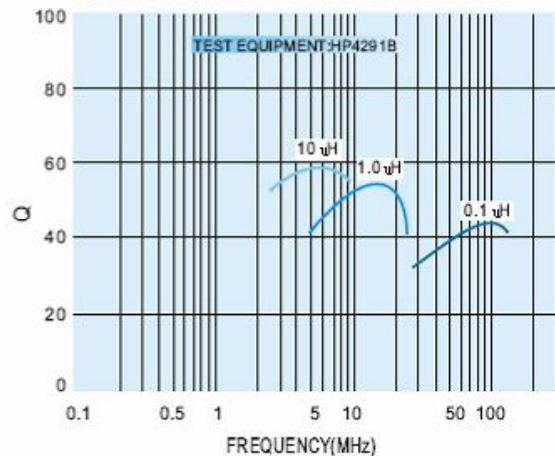
IMPEDANCE vs. FREQUENCY CHARACTERISTICS



INDUCTANCE vs. TEMPERATURE CHARACTERISTICS



Q vs. FREQUENCY CHARACTERISTICS



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