# SERIES 1210R 1210

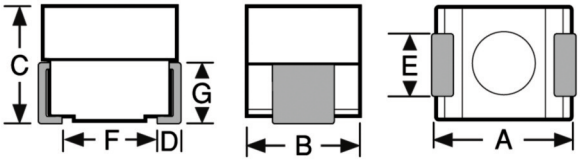
RoHS Compliant

Traditional First Quality

## Surface Mount Inductors

RF Inductors

Actual Size




**Physical Parameters**

| | Inches | Millimeters |
|---|---|---|
| A | 0.118 to 0.138 | 3.00 to 3.51 |
| B | 0.085 to 0.105 | 2.16 to 2.67 |
| C | 0.081 to 0.101 | 2.06 to 2.57 |
| D | 0.016 (Min.) | 0.41 (Min.) |
| E | 0.041 to 0.061 | 1.04 to 1.55 |
| F | 0.070 (Ref. only) | 1.78 (Ref. only) |
| G | 0.054 (Ref. only) | 1.37 (Ref. only) |

Dimensions “A” and “C” are over terminals

**Weight Max.** (Grams) 0.1

**Operating Temperature Range** –55°C to +125°C

**Current Rating at 90°C Ambient** 35°C Rise

**Maximum Power Dissipation at 90°C Ambient**
Phenolic: 0.168 W
Iron: 0.287 W
Ferrite: 0.287 W

****Note** Self Resonant Frequency (SRF) values are calculated and for reference only.

**Marking** SMD; dash number with tolerance letter; date code (YYWWL). Note: An R before the date code indicates a RoHS component.
Example: 1210-018M
SMD
018M
0642C

**Packaging** Tape & reel (8mm): 7" reel, 2000 pieces max.; 13" reel, 7000 pieces max.

***Made In the U.S.A.***

| Optional Tolerances: J = 5% H = 3% G = 2% F = 1% |
|---|
| *Complete part # must include series # PLUS the dash # |
| For surface finish information, refer to www.delevanfinishes.com |

| DASH NUMBER* | INDUCTANCE (µH) | TOLERANCE | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz)** | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
|---|---|---|---|---|---|---|---|
| **SERIES 1210 PHENOLIC CORE** | | | | | | | |
| -018M | 0.0018 | ± 20% | 40 | 50.0 | 2700** | 0.050 | 1562 |
| -022M | 0.0022 | ± 20% | 40 | 50.0 | 2700** | 0.050 | 1562 |
| -027M | 0.0027 | ± 20% | 40 | 50.0 | 2700** | 0.050 | 1562 |
| -033M | 0.0033 | ± 20% | 40 | 50.0 | 2700** | 0.050 | 1562 |
| -039M | 0.0039 | ± 20% | 40 | 50.0 | 2700** | 0.050 | 1562 |
| -047M | 0.0047 | ± 20% | 40 | 50.0 | 2700** | 0.050 | 1562 |
| -056M | 0.0056 | ± 20% | 40 | 50.0 | 2700** | 0.050 | 1562 |
| -068M | 0.0068 | ± 20% | 40 | 50.0 | 2700** | 0.050 | 1562 |
| -082M | 0.0082 | ± 20% | 40 | 50.0 | 2700** | 0.050 | 1562 |
| -100K | 0.010 | ± 10% | 30 | 50.0 | 2000** | 0.13 | 966 |
| -120K | 0.012 | ± 10% | 30 | 50.0 | 1850** | 0.14 | 931 |
| -150K | 0.015 | ± 10% | 30 | 50.0 | 1700** | 0.16 | 871 |
| -180K | 0.018 | ± 10% | 30 | 50.0 | 1550** | 0.18 | 821 |
| -220K | 0.022 | ± 10% | 30 | 50.0 | 1300** | 0.20 | 779 |
| -270K | 0.027 | ± 10% | 30 | 50.0 | 1150** | 0.22 | 743 |
| -330K | 0.033 | ± 10% | 30 | 50.0 | 1000** | 0.24 | 711 |
| -390K | 0.039 | ± 10% | 30 | 50.0 | 900** | 0.27 | 670 |
| -470K | 0.047 | ± 10% | 30 | 50.0 | 800** | 0.30 | 636 |
| -560K | 0.056 | ± 10% | 30 | 50.0 | 750** | 0.33 | 606 |
| -680K | 0.068 | ± 10% | 30 | 50.0 | 700** | 0.36 | 580 |
| -820K | 0.082 | ± 10% | 30 | 50.0 | 625** | 0.40 | 551 |
| **SERIES 1210 IRON CORE** | | | | | | | |
| -101K | 0.10 | ± 10% | 30 | 25.0 | 550 | 0.20 | 1018 |
| -121K | 0.12 | ± 10% | 30 | 25.0 | 500 | 0.22 | 971 |
| -151K | 0.15 | ± 10% | 30 | 25.0 | 450 | 0.25 | 910 |
| -181K | 0.18 | ± 10% | 30 | 25.0 | 400 | 0.28 | 860 |
| -221K | 0.22 | ± 10% | 30 | 25.0 | 350 | 0.32 | 805 |
| -271K | 0.27 | ± 10% | 30 | 25.0 | 320 | 0.36 | 759 |
| -331K | 0.33 | ± 10% | 30 | 25.0 | 300 | 0.40 | 720 |
| -391K | 0.39 | ± 10% | 30 | 25.0 | 250 | 0.45 | 679 |
| -471K | 0.47 | ± 10% | 30 | 25.0 | 220 | 0.50 | 644 |
| -561K | 0.56 | ± 10% | 30 | 25.0 | 180 | 0.55 | 614 |
| -681K | 0.68 | ± 10% | 30 | 25.0 | 160 | 0.60 | 588 |
| -821K | 0.82 | ± 10% | 30 | 25.0 | 140 | 0.67 | 556 |
| **SERIES 1210 FERRITE CORE** | | | | | | | |
| -102J | 1.0 | ± 5% | 30 | 7.9 | 120 | 0.70 | 515 |
| -122J | 1.2 | ± 5% | 30 | 7.9 | 100 | 0.75 | 497 |
| -152J | 1.5 | ± 5% | 30 | 7.9 | 85 | 0.85 | 467 |
| -182J | 1.8 | ± 5% | 30 | 7.9 | 75 | 0.90 | 454 |
| -222J | 2.2 | ± 5% | 30 | 7.9 | 70 | 1.0 | 431 |
| -272J | 2.7 | ± 5% | 30 | 7.9 | 65 | 1.1 | 411 |
| -332J | 3.3 | ± 5% | 30 | 7.9 | 58 | 1.2 | 393 |
| -392J | 3.9 | ± 5% | 30 | 7.9 | 50 | 1.3 | 378 |
| -472J | 4.7 | ± 5% | 30 | 7.9 | 45 | 1.5 | 352 |
| -562J | 5.6 | ± 5% | 30 | 7.9 | 42 | 1.6 | 341 |
| -682J | 6.8 | ± 5% | 30 | 7.9 | 40 | 1.8 | 321 |
| -822J | 8.2 | ± 5% | 30 | 7.9 | 35 | 2.0 | 305 |
| -103J | 10 | ± 5% | 30 | 7.9 | 30 | 2.1 | 297 |
| -123J | 12 | ± 5% | 30 | 2.5 | 28 | 2.5 | 272 |
| -153J | 15 | ± 5% | 30 | 2.5 | 25 | 2.8 | 257 |
| -183J | 18 | ± 5% | 30 | 2.5 | 23 | 3.3 | 237 |
| -223J | 22 | ± 5% | 30 | 2.5 | 20 | 3.7 | 224 |
| -273J | 27 | ± 5% | 30 | 2.5 | 18 | 5.0 | 193 |
| -333J | 33 | ± 5% | 30 | 2.5 | 15 | 5.6 | 182 |
| -393J | 39 | ± 5% | 30 | 2.5 | 14 | 6.4 | 170 |
| -473J | 47 | ± 5% | 30 | 2.5 | 13 | 7.0 | 163 |
| -563J | 56 | ± 5% | 30 | 2.5 | 11 | 8.0 | 152 |
| -683J | 68 | ± 5% | 30 | 2.5 | 10 | 9.0 | 144 |
| -823J | 82 | ± 5% | 30 | 2.5 | 9 | 10.0 | 136 |
| -104J | 100 | ± 5% | 30 | 2.5 | 8 | 13.0 | 120 |

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