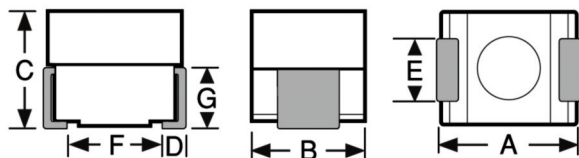


**SERIES****1210R**  
**1210****Surface Mount Inductors**

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](http://www.delevanfinishes.com)

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