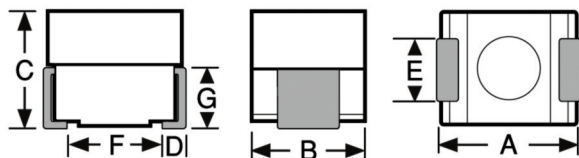


**SERIES****1210R**  
**1210****Surface Mount Inductors**

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) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
|----------------------------------|-----------------|-----------|-----------|----------------------|-------------------|------------------------------|-----------------------------|
| <b>SERIES 1210 PHENOLIC CORE</b> |                 |           |           |                      |                   |                              |                             |
| -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                         |
| <b>SERIES 1210 IRON CORE</b>     |                 |           |           |                      |                   |                              |                             |
| -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                         |
| <b>SERIES 1210 FERRITE CORE</b>  |                 |           |           |                      |                   |                              |                             |
| -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                         |