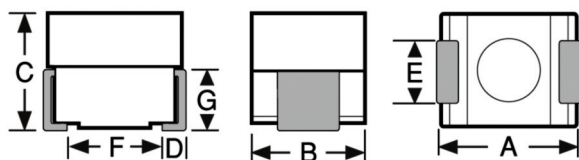


**SERIES****1210R**  
**1210****Surface Mount Inductors**

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)

| RF II        |                           |           |           |                      |                   |                 |                              |                             |
|--------------|---------------------------|-----------|-----------|----------------------|-------------------|-----------------|------------------------------|-----------------------------|
| DASH NUMBER* | INDUCTANCE (μH)           | TOLERANCE | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | MAXIMUM (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                          |                             |