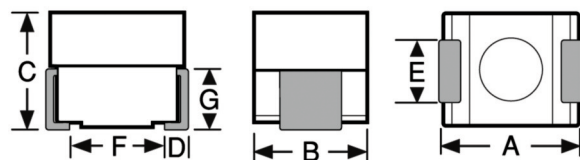


**SERIES****1008R  
1008****Unshielded Surface Mount Inductors**

Actual Size

**Physical Parameters**

|   | Inches            | Millimeters      |
|---|-------------------|------------------|
| A | 0.095 to 0.115    | 2.41 to 2.92     |
| B | 0.085 to 0.105    | 2.16 to 2.66     |
| C | 0.075 to 0.095    | 1.91 to 2.41     |
| D | 0.010 to 0.030    | 0.26 to 0.76     |
| E | 0.040 to 0.060    | 1.02 to 1.52     |
| F | 0.060 (Ref. only) | 1.52 (Ref. only) |
| G | 0.045 (Ref. only) | 1.14 (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**

Phenolic: 0.169 W

Ferrite: 0.208 W

**Marking** SMD; Dash number with tolerance letter; date code (YYWWL). Note: An R before the date code indicates a RoHS component.

Example: 1008R-181J

SMD

181J

R 0703A

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

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

| DASH NUMBER*              | INDUCTANCE (μH) | TOLERANCE | TEST FREQUENCY (MHz) | Q MINIMUM | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
|---------------------------|-----------------|-----------|----------------------|-----------|-------------------|------------------------------|-----------------------------|
| SERIES 1008 PHENOLIC CORE |                 |           |                      |           |                   |                              |                             |
| -018M                     | 0.0018          | ±20%      | 40                   | 50        | 2700              | 0.050                        | 1562                        |
| -022M                     | 0.0022          | ±20%      | 40                   | 50        | 2700              | 0.050                        | 1562                        |
| -027M                     | 0.0027          | ±20%      | 40                   | 50        | 2700              | 0.050                        | 1562                        |
| -033M                     | 0.0033          | ±20%      | 40                   | 50        | 2700              | 0.050                        | 1562                        |
| -039M                     | 0.0039          | ±20%      | 40                   | 50        | 2700              | 0.050                        | 1562                        |
| -047M                     | 0.0047          | ±20%      | 40                   | 50        | 2700              | 0.050                        | 1562                        |
| -056M                     | 0.0056          | ±20%      | 40                   | 50        | 2700              | 0.050                        | 1562                        |
| -068M                     | 0.0068          | ±20%      | 40                   | 50        | 2700              | 0.050                        | 1562                        |
| -082M                     | 0.0082          | ±20%      | 40                   | 50        | 2700              | 0.050                        | 1562                        |
| -100K                     | 0.010           | ±10%      | 40                   | 50        | 2700              | 0.050                        | 1562                        |
| -120K                     | 0.012           | ±10%      | 40                   | 50        | 2450              | 0.058                        | 1450                        |
| -150K                     | 0.015           | ±10%      | 40                   | 50        | 2200              | 0.064                        | 1381                        |
| -180K                     | 0.018           | ±10%      | 40                   | 50        | 2000              | 0.070                        | 1320                        |
| -220K                     | 0.022           | ±10%      | 35                   | 50        | 1800              | 0.080                        | 1235                        |
| -270K                     | 0.027           | ±10%      | 35                   | 50        | 1625              | 0.090                        | 1164                        |
| -330K                     | 0.033           | ±10%      | 30                   | 50        | 1450              | 0.100                        | 1105                        |
| -390K                     | 0.039           | ±10%      | 30                   | 50        | 1335              | 0.110                        | 1053                        |
| -470K                     | 0.047           | ±10%      | 30                   | 50        | 1220              | 0.120                        | 1008                        |
| -560K                     | 0.056           | ±10%      | 25                   | 50        | 1110              | 0.170                        | 847                         |
| -680K                     | 0.068           | ±10%      | 25                   | 50        | 1000              | 0.180                        | 823                         |
| -820K                     | 0.082           | ±10%      | 25                   | 50        | 915               | 0.190                        | 801                         |
| -101K                     | 0.100           | ±10%      | 15                   | 25        | 550               | 0.230                        | 728                         |
| SERIES 1008 FERRITE CORE  |                 |           |                      |           |                   |                              |                             |
| -121K                     | 0.12            | ±10%      | 40                   | 25        | 750               | 0.100                        | 1225                        |
| -151K                     | 0.15            | ±10%      | 40                   | 25        | 650               | 0.110                        | 1168                        |
| -181K                     | 0.18            | ±10%      | 40                   | 25        | 550               | 0.120                        | 1119                        |
| -221K                     | 0.22            | ±10%      | 40                   | 25        | 450               | 0.135                        | 1055                        |
| -271K                     | 0.27            | ±10%      | 40                   | 25        | 375               | 0.150                        | 1000                        |
| -331K                     | 0.33            | ±10%      | 40                   | 25        | 300               | 0.165                        | 954                         |
| -391K                     | 0.39            | ±10%      | 40                   | 25        | 250               | 0.180                        | 913                         |
| -471K                     | 0.47            | ±10%      | 40                   | 25        | 215               | 0.210                        | 846                         |
| -561K                     | 0.56            | ±10%      | 40                   | 25        | 195               | 0.230                        | 808                         |
| -681K                     | 0.68            | ±10%      | 40                   | 25        | 175               | 0.260                        | 760                         |
| -821K                     | 0.82            | ±10%      | 40                   | 25        | 140               | 0.300                        | 708                         |
| -102J                     | 1.0             | ±5%       | 30                   | 7.9       | 125               | 0.320                        | 685                         |
| -122J                     | 1.2             | ±5%       | 30                   | 7.9       | 100               | 0.430                        | 591                         |
| -152J                     | 1.5             | ±5%       | 30                   | 7.9       | 92                | 0.500                        | 548                         |
| -182J                     | 1.8             | ±5%       | 30                   | 7.9       | 76                | 0.720                        | 457                         |
| -222J                     | 2.2             | ±5%       | 30                   | 7.9       | 70                | 0.800                        | 433                         |
| -272J                     | 2.7             | ±5%       | 30                   | 7.9       | 62                | 0.880                        | 413                         |
| -332J                     | 3.3             | ±5%       | 30                   | 7.9       | 60                | 0.950                        | 398                         |
| -392J                     | 3.9             | ±5%       | 30                   | 7.9       | 57                | 1.20                         | 354                         |
| -472J                     | 4.7             | ±5%       | 30                   | 7.9       | 47                | 1.35                         | 334                         |
| -562J                     | 5.6             | ±5%       | 30                   | 7.9       | 44                | 1.54                         | 312                         |
| -682J                     | 6.8             | ±5%       | 30                   | 7.9       | 35                | 2.00                         | 274                         |
| -822J                     | 8.2             | ±5%       | 30                   | 7.9       | 33                | 2.16                         | 264                         |
| -103J                     | 10              | ±5%       | 30                   | 7.9       | 28                | 2.50                         | 245                         |
| -123J                     | 12              | ±5%       | 30                   | 2.5       | 24                | 3.50                         | 207                         |
| -153J                     | 15              | ±5%       | 30                   | 2.5       | 21                | 4.00                         | 194                         |
| -183J                     | 18              | ±5%       | 30                   | 2.5       | 19                | 5.00                         | 173                         |
| -223J                     | 22              | ±5%       | 30                   | 2.5       | 17                | 6.00                         | 158                         |
| -273J                     | 27              | ±5%       | 30                   | 2.5       | 15                | 7.00                         | 146                         |
| -333J                     | 33              | ±5%       | 30                   | 2.5       | 13                | 8.00                         | 135                         |
| -393J                     | 39              | ±5%       | 30                   | 2.5       | 12                | 9.00                         | 125                         |
| -473J                     | 47              | ±5%       | 30                   | 2.5       | 11                | 10.00                        | 120                         |

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)