

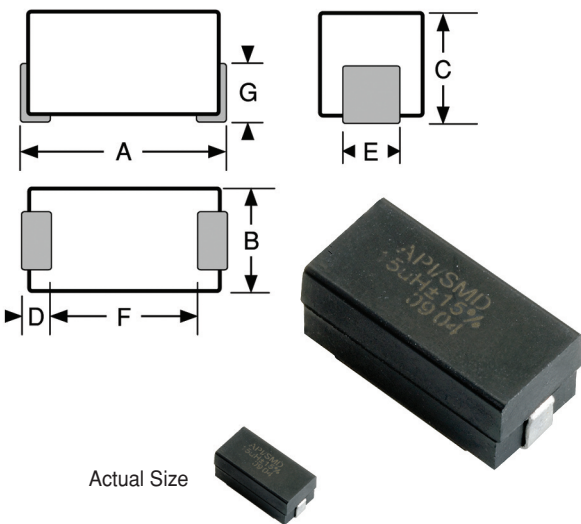
**SERIES**

**5022R  
5022**

RoHS  
Compliant  
Traditional  
First Quality

**Surface Mountable Inductors**

INDUCTANCE (µH) ±5%  
TEST FREQUENCY (MHz)  
Q MINIMUM  
SRF MINIMUM (MHz)  
DC RESISTANCE MAXIMUM (OHMS)  
CURRENT RATING MAXIMUM (mA)



**Physical Parameters**

|   | Inches            | Millimeters      |
|---|-------------------|------------------|
| A | 0.490 to 0.520    | 12.44 to 13.21   |
| B | 0.230 to 0.250    | 5.84 to 6.35     |
| C | 0.210 to 0.230    | 5.33 to 5.84     |
| D | 0.050 Min.        | 1.27 Min.        |
| E | 0.055 to 0.095    | 1.397 to 2.413   |
| F | 0.330 (Ref. only) | 8.38 (Ref. only) |
| G | 0.120 (Ref. only) | 3.04 (Ref. only) |

**Weight Max. (Grams)** 1.5

**Mechanical Configuration** Units are encapsulated in an epoxy molded surface mount package.

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

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

**Maximum Power Dissipation at 90°C** 0.405 W

**Marking** API/SMD; 5022; inductance with units and tolerance; date code (YYWWL). Note: An R after 5022 indicates a RoHS component.

Example: 5022R-102G

API/SMD  
5022R  
1.0uH±2%  
0542A

**Packaging** Tape & reel (24mm): 13" reel, 800 pieces max.; 7" reel not available

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

| SERIES 5022 PHENOLIC CORE |      |    |      |     |       |      |
|---------------------------|------|----|------|-----|-------|------|
| -151J                     | 0.15 | 50 | 25.0 | 525 | 0.030 | 3500 |
| -161J                     | 0.16 | 50 | 25.0 | 525 | 0.040 | 3025 |
| -181J                     | 0.18 | 50 | 25.0 | 500 | 0.043 | 2915 |
| -201J                     | 0.20 | 50 | 25.0 | 475 | 0.047 | 2790 |
| -221J                     | 0.22 | 50 | 25.0 | 450 | 0.055 | 2580 |
| -241J                     | 0.24 | 45 | 25.0 | 415 | 0.060 | 2470 |
| -271J                     | 0.27 | 45 | 25.0 | 400 | 0.070 | 2285 |
| -301J                     | 0.30 | 45 | 25.0 | 380 | 0.080 | 2140 |
| -331J                     | 0.33 | 45 | 25.0 | 360 | 0.090 | 2015 |
| -361J                     | 0.36 | 45 | 25.0 | 345 | 0.098 | 1935 |
| -391J                     | 0.39 | 45 | 25.0 | 330 | 0.100 | 1915 |
| -431J                     | 0.43 | 45 | 25.0 | 315 | 0.110 | 1825 |
| -471J                     | 0.47 | 45 | 25.0 | 310 | 0.120 | 1750 |
| -511J                     | 0.51 | 45 | 25.0 | 300 | 0.130 | 1680 |
| -561J                     | 0.56 | 50 | 25.0 | 280 | 0.135 | 1645 |
| -621J                     | 0.62 | 50 | 25.0 | 260 | 0.140 | 1615 |
| -681J                     | 0.68 | 50 | 25.0 | 250 | 0.150 | 1555 |
| -751J                     | 0.75 | 50 | 25.0 | 230 | 0.180 | 1425 |
| -821J                     | 0.82 | 50 | 25.0 | 220 | 0.220 | 1300 |
| -911J                     | 0.91 | 50 | 25.0 | 210 | 0.240 | 1240 |
| -102J                     | 1.00 | 50 | 25.0 | 200 | 0.290 | 1125 |
| -112J                     | 1.10 | 33 | 7.9  | 190 | 0.420 | 930  |
| -122J                     | 1.20 | 33 | 7.9  | 180 | 0.420 | 930  |
| -132J                     | 1.30 | 33 | 7.9  | 170 | 0.480 | 875  |
| -152J                     | 1.50 | 33 | 7.9  | 160 | 0.500 | 855  |
| -162J                     | 1.60 | 33 | 7.9  | 155 | 0.600 | 780  |
| -182J                     | 1.80 | 33 | 7.9  | 150 | 0.650 | 755  |
| -202J                     | 2.00 | 33 | 7.9  | 140 | 0.800 | 675  |
| -222J                     | 2.20 | 33 | 7.9  | 135 | 0.950 | 620  |
| -242J                     | 2.40 | 33 | 7.9  | 130 | 1.100 | 575  |
| -272J                     | 2.70 | 33 | 7.9  | 120 | 1.200 | 550  |
| -302J                     | 3.00 | 33 | 7.9  | 115 | 1.800 | 455  |
| -332J                     | 3.30 | 33 | 7.9  | 110 | 2.000 | 430  |
| -362J                     | 3.60 | 33 | 7.9  | 105 | 2.150 | 415  |
| -392J                     | 3.90 | 33 | 7.9  | 100 | 2.300 | 395  |
| -432J                     | 4.30 | 33 | 7.9  | 95  | 2.400 | 390  |
| -472J                     | 4.70 | 33 | 7.9  | 90  | 2.600 | 375  |

Optional Tolerances: H = 3% G = 2% F = 1%

\*Complete part # must include series # PLUS the dash #

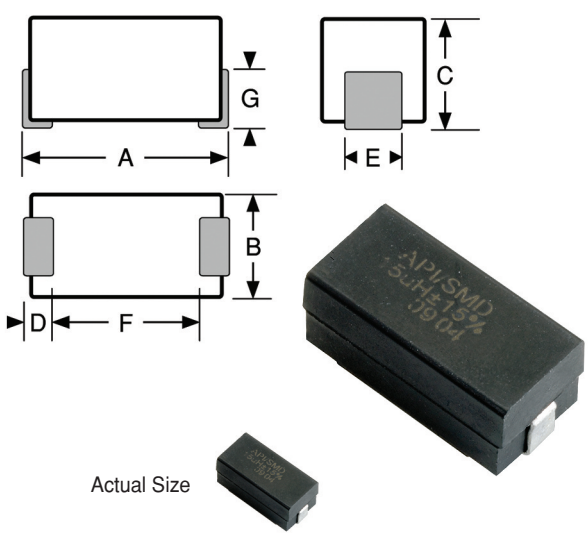
For surface finish information, refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)

**SERIES**

**5022R**  
**5022**



**Surface Mountable Inductors**



INDUCTANCE (μH) ±10%  
DASH NUMBER\*  
TEST FREQUENCY (MHz)  
Q MINIMUM  
SRF MINIMUM (MHz)  
DC RESISTANCE MAXIMUM (OHMS)  
CURRENT RATING MAXIMUM (mA)

| SERIES 5022 IRON CORE |        |    |      |      |        |      |
|-----------------------|--------|----|------|------|--------|------|
| -512J                 | 5.10   | 35 | 7.9  | 65   | 0.300  | 1040 |
| -562J                 | 5.60   | 45 | 7.9  | 60   | 0.320  | 1030 |
| -622J                 | 6.20   | 45 | 7.9  | 60   | 0.470  | 830  |
| -682J                 | 6.80   | 50 | 7.9  | 55   | 0.500  | 820  |
| -752J                 | 7.50   | 50 | 7.9  | 55   | 0.550  | 765  |
| -822J                 | 8.20   | 50 | 7.9  | 50   | 0.600  | 748  |
| -912J                 | 9.10   | 55 | 7.9  | 50   | 0.800  | 638  |
| -103J                 | 10.0   | 55 | 7.9  | 45   | 0.900  | 610  |
| -113J                 | 11.0   | 60 | 2.5  | 44   | 1.050  | 565  |
| -123J                 | 12.0   | 65 | 2.5  | 42   | 1.100  | 555  |
| -133J                 | 13.0   | 65 | 2.5  | 40   | 1.200  | 520  |
| -153J                 | 15.0   | 65 | 2.5  | 40   | 1.400  | 495  |
| -163J                 | 16.0   | 70 | 2.5  | 38   | 1.800  | 420  |
| -183J                 | 18.0   | 75 | 2.5  | 34   | 2.250  | 388  |
| -203J                 | 20.0   | 75 | 2.5  | 30   | 2.500  | 372  |
| -223J                 | 22.0   | 75 | 2.5  | 30   | 2.500  | 368  |
| -243J                 | 24.0   | 60 | 2.5  | 26   | 2.500  | 368  |
| -273J                 | 27.0   | 60 | 2.5  | 25   | 2.600  | 360  |
| -303J                 | 30.0   | 65 | 2.5  | 21   | 2.800  | 348  |
| -333J                 | 33.0   | 65 | 2.5  | 19   | 3.000  | 337  |
| -363J                 | 36.0   | 60 | 2.5  | 15.5 | 2.500  | 368  |
| -393J                 | 39.0   | 60 | 2.5  | 14.5 | 2.600  | 361  |
| -433J                 | 43.0   | 60 | 2.5  | 13.7 | 2.700  | 353  |
| -473J                 | 47.0   | 55 | 2.5  | 13.0 | 2.750  | 351  |
| -513J                 | 51.0   | 55 | 2.5  | 12.7 | 2.850  | 344  |
| -563J                 | 56.0   | 55 | 2.5  | 12.0 | 3.000  | 335  |
| -623J                 | 62.0   | 55 | 2.5  | 11.5 | 3.150  | 328  |
| -683J                 | 68.0   | 55 | 2.5  | 11.0 | 3.300  | 320  |
| -753J                 | 75.0   | 55 | 2.5  | 10.5 | 3.700  | 302  |
| -823J                 | 82.0   | 50 | 2.5  | 10.3 | 3.900  | 295  |
| -913J                 | 91.0   | 50 | 2.5  | 10.0 | 4.300  | 280  |
| -104J                 | 100.0  | 50 | 2.5  | 9.5  | 4.500  | 275  |
| -114J                 | 110.0  | 60 | 0.79 | 8.9  | 4.900  | 262  |
| -124J                 | 120.0  | 65 | 0.79 | 8.7  | 5.200  | 255  |
| -134J                 | 130.0  | 65 | 0.79 | 8.5  | 5.450  | 250  |
| -154J                 | 150.0  | 65 | 0.79 | 8.0  | 6.050  | 237  |
| -164J                 | 160.0  | 65 | 0.79 | 7.5  | 6.400  | 230  |
| -184J                 | 180.0  | 65 | 0.79 | 7.0  | 6.750  | 224  |
| -204J                 | 200.0  | 65 | 0.79 | 6.5  | 7.100  | 219  |
| -224J                 | 220.0  | 65 | 0.79 | 6.2  | 7.450  | 213  |
| -244J                 | 240.0  | 65 | 0.79 | 5.9  | 7.800  | 210  |
| -274J                 | 270.0  | 65 | 0.79 | 5.7  | 11.000 | 182  |
| -304J                 | 300.0  | 65 | 0.79 | 5.4  | 11.500 | 178  |
| -334J                 | 330.0  | 65 | 0.79 | 5.1  | 12.000 | 173  |
| -364J                 | 360.0  | 65 | 0.79 | 4.8  | 12.500 | 171  |
| -394J                 | 390.0  | 65 | 0.79 | 4.5  | 16.300 | 149  |
| -434J                 | 430.0  | 65 | 0.79 | 4.2  | 17.100 | 147  |
| -474J                 | 470.0  | 65 | 0.79 | 3.9  | 17.900 | 143  |
| -514J                 | 510.0  | 65 | 0.79 | 3.7  | 18.800 | 139  |
| -564J                 | 560.0  | 65 | 0.79 | 3.8  | 19.500 | 136  |
| -624J                 | 620.0  | 65 | 0.79 | 3.3  | 25.900 | 119  |
| -684J                 | 680.0  | 65 | 0.79 | 3.1  | 27.200 | 116  |
| -754J                 | 750.0  | 65 | 0.79 | 2.9  | 28.600 | 112  |
| -824J                 | 820.0  | 65 | 0.79 | 2.7  | 30.000 | 110  |
| -914J                 | 910.0  | 65 | 0.79 | 2.5  | 31.500 | 107  |
| -105J                 | 1000.0 | 65 | 0.79 | 2.3  | 33.000 | 105  |

Optional Tolerances: 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)



# Mouser Electronics

Authorized Distributor

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