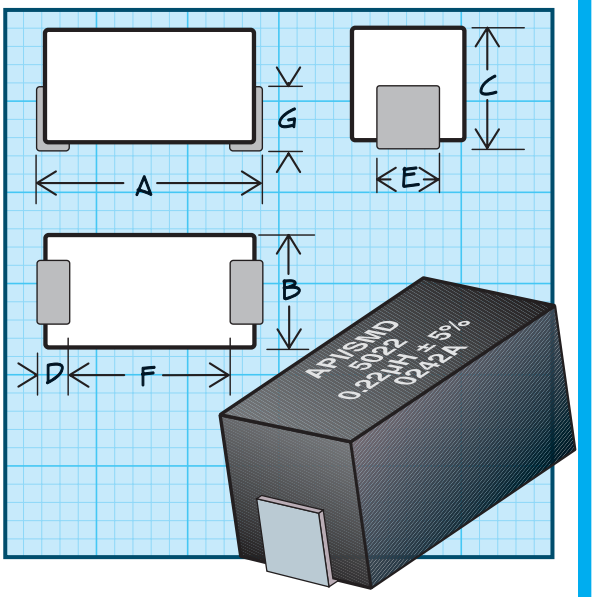
# Series 5022R 5022

RoHS Compliant

Traditional First Quality

## Surface Mountable Inductors




**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 Watts

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

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

| DASH NUMBER* | INDUCTANCE (µH) ± 5% | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAX. (mA) |
|---|---|---|---|---|---|---|
| **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 further surface finish information, refer to TECHNICAL section of this catalog.**





www.delevan.com E-mail: apisales@delevan.com
270 Quaker Rd., East Aurora NY 14052 • Phone 716-652-3600 • Fax 716-652-4814
API Delevan® American Precision Industries

# Series 5022R 5022

RoHS Compliant

Traditional First Quality

## Surface Mountable Inductors

| DASH NUMBER* | INDUCTANCE (µH) ± 5% | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAX. (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 further surface finish information, refer to TECHNICAL section of this catalog.**



API Delevan® American Precision Industries
www.delevan.com E-mail: apisales@delevan.com
270 Quaker Rd., East Aurora NY 14052 • Phone 716-652-3600 • Fax 716-652-4814