



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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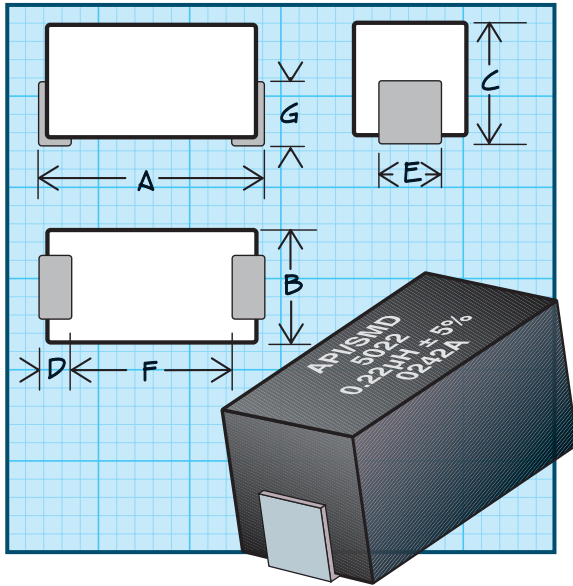


# Series 5022R 5022

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  
( $\mu$ H)  $\pm$  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.

RF INDUCTORS

# Series 5022R 5022

RoHS  
Compliant

Traditional  
First Quality

## Surface Mountable Inductors

RF INDUCTORS

| DASH NUMBER                  | INDUCTANCE<br>( $\mu$ H) $\pm$ 5% | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | DC RESISTANCE<br>MAXIMUM (OHMS) | CURRENT RATING<br>MAX. (mA) |
|------------------------------|-----------------------------------|-----------|----------------------|-------------------|---------------------------------|-----------------------------|
| <b>SERIES 5022 IRON CORE</b> |                                   |           |                      |                   |                                 |                             |
| -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 #

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