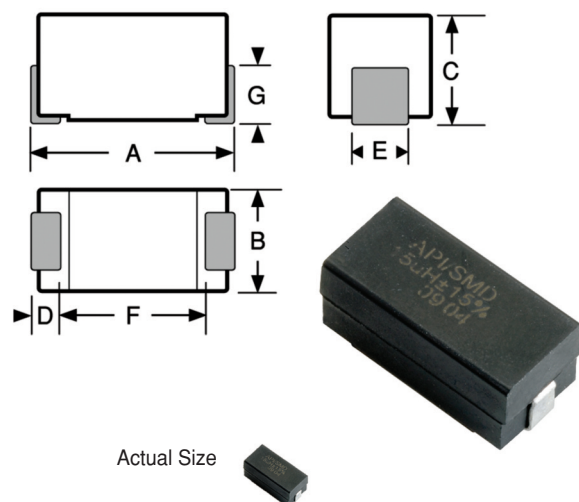


**SERIES****4922R  
4922****Surface Mount High Current Power Inductors**

**Mechanical Configuration** Units are encapsulated in a Surface Mount package, using an epoxy molded case. Leads are pre-tinned. A high resistivity ferrite core allows for high inductance with low DC resistance.

**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 0.075    | 1.40 to 1.91     |
| F | 0.330 (Ref. only) | 8.38 (Ref. only) |
| G | 0.120 (Ref. only) | 3.04 (Ref. only) |

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

**Current Rating at 85°C Ambient** 40°C Rise

**Maximum Power Dissipation at 85°C** 0.55 Watts

**Inductance**

Measured at 1 VAC open circuit with no DC current.

**Incremental Current** The current at which the inductance will be decreased by a maximum of 5% from its initial zero DC value.

**Weight (Grams Max.)** 1.5

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

Example: 4922-01L

API/SMD  
1.0uH±15%  
0918A

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

**Made in the U.S.A.**

**Optional Tolerances:** Values < 10μH: K = 10% J = 5%  
Values ≥ 10μH: K = 10% J = 5% H = 3%

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

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

0 AMPS DC INDUCTANCE  
±15% (μH @ 10 kHz)

DCR (OHMS) MAXIMUM

RATED DC CURRENT  
(Amps) MAXIMUM

INDUCTANCE (μH) MINIMUM  
@ Rated DC Current

Power Inductors

| SERIES 4922 FERRITE CORE |                                            |                    |                                    |                                               |
|--------------------------|--------------------------------------------|--------------------|------------------------------------|-----------------------------------------------|
| DASH NUMBER*             | 0 AMPS DC INDUCTANCE<br>±15% (μH @ 10 kHz) | DCR (OHMS) MAXIMUM | RATED DC CURRENT<br>(Amps) MAXIMUM | INDUCTANCE (μH) MINIMUM<br>@ Rated DC Current |
| -221L                    | 0.22                                       | 0.0080             | 7.00                               | 7.00                                          |
| -271L                    | 0.27                                       | 0.0085             | 6.75                               | 6.75                                          |
| -331L                    | 0.33                                       | 0.0090             | 6.50                               | 6.50                                          |
| -391L                    | 0.39                                       | 0.0095             | 6.25                               | 6.25                                          |
| -471L                    | 0.47                                       | 0.0100             | 6.00                               | 6.00                                          |
| -561L                    | 0.56                                       | 0.0105             | 5.80                               | 5.80                                          |
| -681L                    | 0.68                                       | 0.0110             | 5.70                               | 5.70                                          |
| -821L                    | 0.82                                       | 0.0120             | 5.60                               | 5.60                                          |
| -01L                     | 1.00                                       | 0.013              | 5.50                               | 5.50                                          |
| -02L                     | 1.20                                       | 0.018              | 4.69                               | 4.69                                          |
| -03L                     | 1.50                                       | 0.020              | 4.45                               | 4.45                                          |
| -04L                     | 1.80                                       | 0.021              | 4.34                               | 4.34                                          |
| -05L                     | 2.20                                       | 0.029              | 3.70                               | 3.70                                          |
| -06L                     | 2.70                                       | 0.034              | 3.41                               | 3.41                                          |
| -07L                     | 3.30                                       | 0.038              | 3.23                               | 3.23                                          |
| -08L                     | 3.90                                       | 0.042              | 3.07                               | 3.07                                          |
| -09L                     | 4.70                                       | 0.047              | 2.90                               | 2.90                                          |
| -10L                     | 5.60                                       | 0.051              | 2.79                               | 2.79                                          |
| -11L                     | 6.80                                       | 0.058              | 2.61                               | 2.61                                          |
| -12L                     | 8.20                                       | 0.063              | 2.51                               | 2.51                                          |
| -13L                     | 10.0                                       | 0.071              | 2.36                               | 2.36                                          |
| -14L                     | 12.0                                       | 0.079              | 2.24                               | 2.24                                          |
| -15L                     | 15.0                                       | 0.089              | 2.11                               | 2.11                                          |
| -16L                     | 18.0                                       | 0.119              | 1.82                               | 1.82                                          |
| -17L                     | 22.0                                       | 0.152              | 1.61                               | 1.61                                          |
| -18L                     | 27.0                                       | 0.179              | 1.48                               | 1.48                                          |
| -19L                     | 33.0                                       | 0.222              | 1.33                               | 1.33                                          |
| -20L                     | 39.0                                       | 0.315              | 1.12                               | 1.12                                          |
| -21L                     | 47.0                                       | 0.362              | 1.04                               | 1.04                                          |
| -22L                     | 56.0                                       | 0.397              | 1.00                               | 1.00                                          |
| -23L                     | 68.0                                       | 0.418              | 0.97                               | 0.97                                          |
| -24L                     | 82.0                                       | 0.604              | 0.81                               | 0.81                                          |
| -25L                     | 100                                        | 0.672              | 0.76                               | 0.76                                          |
| -26L                     | 120                                        | 0.735              | 0.73                               | 0.73                                          |
| -27L                     | 150                                        | 0.998              | 0.63                               | 0.63                                          |
| -28L                     | 180                                        | 1.370              | 0.53                               | 0.53                                          |
| -29L                     | 220                                        | 1.580              | 0.50                               | 0.50                                          |
| -30L                     | 270                                        | 1.770              | 0.47                               | 0.47                                          |
| -31L                     | 330                                        | 2.510              | 0.39                               | 0.39                                          |
| -32L                     | 390                                        | 2.730              | 0.38                               | 0.38                                          |
| -33L                     | 470                                        | 3.250              | 0.35                               | 0.35                                          |
| -34L                     | 560                                        | 3.750              | 0.33                               | 0.33                                          |
| -35L                     | 680                                        | 4.310              | 0.30                               | 0.30                                          |
| -36L                     | 820                                        | 6.040              | 0.26                               | 0.26                                          |
| -37L                     | 1000                                       | 6.900              | 0.24                               | 0.24                                          |
| -38L                     | 1200                                       | 10.00              | 0.200                              | 0.200                                         |
| -39L                     | 1500                                       | 12.50              | 0.178                              | 0.178                                         |
| -40L                     | 1800                                       | 16.00              | 0.157                              | 0.157                                         |
| -41L                     | 2200                                       | 20.00              | 0.141                              | 0.141                                         |
| -42L                     | 2700                                       | 23.00              | 0.131                              | 0.131                                         |
| -43L                     | 3300                                       | 25.00              | 0.126                              | 0.126                                         |
| -44L                     | 3900                                       | 33.00              | 0.110                              | 0.110                                         |
| -45L                     | 4700                                       | 37.00              | 0.103                              | 0.103                                         |
| -46L                     | 5600                                       | 40.00              | 0.100                              | 0.100                                         |
| -47L                     | 6800                                       | 62.00              | 0.080                              | 0.080                                         |
| -48L                     | 8200                                       | 66.00              | 0.077                              | 0.077                                         |
| -49L                     | 10000                                      | 74.00              | 0.071                              | 0.071                                         |
| -50L                     | 12000                                      | 93.00              | 0.065                              | 0.065                                         |
| -51L                     | 15000                                      | 105.0              | 0.061                              | 0.061                                         |
| -52L                     | 18000                                      | 143.0              | 0.052                              | 0.052                                         |
| -53L                     | 22000                                      | 160.0              | 0.050                              | 0.050                                         |