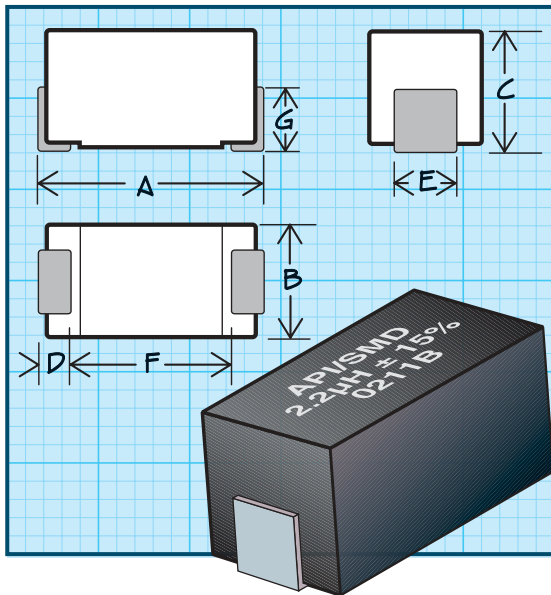


# Series 4922 High Current Surface Mount Power Inductors



**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 .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

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

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

| PART NUMBER              | INDUCTANCE @ 1 KHz<br>( $\mu$ H) $\pm 15\%$ | DC RESISTANCE<br>MAXIMUM (OHMS) | CURRENT RATING<br>MAXIMUM (Amps) | INCREMENTAL<br>CURRENT (Amps) |
|--------------------------|---------------------------------------------|---------------------------------|----------------------------------|-------------------------------|
| SERIES 4922 FERRITE CORE |                                             |                                 |                                  |                               |
| 4922-221L                | 0.22                                        | 0.0080                          | 7.00                             | 7.00                          |
| 4922-271L                | 0.27                                        | 0.0085                          | 6.75                             | 6.75                          |
| 4922-331L                | 0.33                                        | 0.0090                          | 6.50                             | 6.50                          |
| 4922-391L                | 0.39                                        | 0.0095                          | 6.25                             | 6.25                          |
| 4922-471L                | 0.47                                        | 0.0100                          | 6.00                             | 6.00                          |
| 4922-561L                | 0.56                                        | 0.0105                          | 5.80                             | 5.80                          |
| 4922-681L                | 0.68                                        | 0.0110                          | 5.70                             | 5.70                          |
| 4922-821L                | 0.82                                        | 0.0120                          | 5.60                             | 5.60                          |
| 4922-01L                 | 1.00                                        | 0.013                           | 5.50                             | 5.50                          |
| 4922-02L                 | 1.20                                        | 0.018                           | 4.69                             | 4.69                          |
| 4922-03L                 | 1.50                                        | 0.020                           | 4.45                             | 4.45                          |
| 4922-04L                 | 1.80                                        | 0.021                           | 4.34                             | 4.34                          |
| 4922-05L                 | 2.20                                        | 0.029                           | 3.70                             | 3.70                          |
| 4922-06L                 | 2.70                                        | 0.034                           | 3.41                             | 3.41                          |
| 4922-07L                 | 3.30                                        | 0.038                           | 3.23                             | 3.23                          |
| 4922-08L                 | 3.90                                        | 0.042                           | 3.07                             | 3.07                          |
| 4922-09L                 | 4.70                                        | 0.047                           | 2.90                             | 2.90                          |
| 4922-10L                 | 5.60                                        | 0.051                           | 2.79                             | 2.79                          |
| 4922-11L                 | 6.80                                        | 0.058                           | 2.61                             | 2.61                          |
| 4922-12L                 | 8.20                                        | 0.063                           | 2.51                             | 2.51                          |
| 4922-13L                 | 10.0                                        | 0.071                           | 2.36                             | 2.36                          |
| 4922-14L                 | 12.0                                        | 0.079                           | 2.24                             | 2.24                          |
| 4922-15L                 | 15.0                                        | 0.089                           | 2.11                             | 2.11                          |
| 4922-16L                 | 18.0                                        | 0.119                           | 1.82                             | 1.82                          |
| 4922-17L                 | 22.0                                        | 0.152                           | 1.61                             | 1.61                          |
| 4922-18L                 | 27.0                                        | 0.179                           | 1.48                             | 1.48                          |
| 4922-19L                 | 33.0                                        | 0.222                           | 1.33                             | 1.33                          |
| 4922-20L                 | 39.0                                        | 0.315                           | 1.12                             | 1.12                          |
| 4922-21L                 | 47.0                                        | 0.362                           | 1.04                             | 1.04                          |
| 4922-22L                 | 56.0                                        | 0.397                           | 1.00                             | 1.00                          |
| 4922-23L                 | 68.0                                        | 0.418                           | 0.97                             | 0.97                          |
| 4922-24L                 | 82.0                                        | 0.604                           | 0.81                             | 0.81                          |
| 4922-25L                 | 100                                         | 0.672                           | 0.76                             | 0.76                          |
| 4922-26L                 | 120                                         | 0.735                           | 0.73                             | 0.73                          |
| 4922-27L                 | 150                                         | 0.998                           | 0.63                             | 0.63                          |
| 4922-28L                 | 180                                         | 1.370                           | 0.53                             | 0.53                          |
| 4922-29L                 | 220                                         | 1.580                           | 0.50                             | 0.50                          |
| 4922-30L                 | 270                                         | 1.770                           | 0.47                             | 0.47                          |
| 4922-31L                 | 330                                         | 2.510                           | 0.39                             | 0.39                          |
| 4922-32L                 | 390                                         | 2.730                           | 0.38                             | 0.38                          |
| 4922-33L                 | 470                                         | 3.250                           | 0.35                             | 0.35                          |
| 4922-34L                 | 560                                         | 3.750                           | 0.33                             | 0.33                          |
| 4922-35L                 | 680                                         | 4.310                           | 0.30                             | 0.30                          |
| 4922-36L                 | 820                                         | 6.040                           | 0.26                             | 0.26                          |
| 4922-37L                 | 1000                                        | 6.900                           | 0.24                             | 0.24                          |
| 4922-38L                 | 1200                                        | 10.00                           | 0.200                            | 0.200                         |
| 4922-39L                 | 1500                                        | 12.50                           | 0.178                            | 0.178                         |
| 4922-40L                 | 1800                                        | 16.00                           | 0.157                            | 0.157                         |
| 4922-41L                 | 2200                                        | 20.00                           | 0.141                            | 0.141                         |
| 4922-42L                 | 2700                                        | 23.00                           | 0.131                            | 0.131                         |
| 4922-43L                 | 3300                                        | 25.00                           | 0.126                            | 0.126                         |
| 4922-44L                 | 3900                                        | 33.00                           | 0.110                            | 0.110                         |
| 4922-45L                 | 4700                                        | 37.00                           | 0.103                            | 0.103                         |
| 4922-46L                 | 5600                                        | 40.00                           | 0.100                            | 0.100                         |
| 4922-47L                 | 6800                                        | 62.00                           | 0.080                            | 0.080                         |
| 4922-48L                 | 8200                                        | 66.00                           | 0.077                            | 0.077                         |
| 4922-49L                 | 10000                                       | 74.00                           | 0.071                            | 0.071                         |
| 4922-50L                 | 12000                                       | 93.00                           | 0.065                            | 0.065                         |
| 4922-51L                 | 15000                                       | 105.0                           | 0.061                            | 0.061                         |
| 4922-52L                 | 18000                                       | 143.0                           | 0.052                            | 0.052                         |
| 4922-53L                 | 22000                                       | 160.0                           | 0.050                            | 0.050                         |

## OPTIONAL TOLERANCES:

VALUES < 10 $\mu$ H: K=10% J=5%

VALUES > 10 $\mu$ H: K=10% J=5% H=3%