

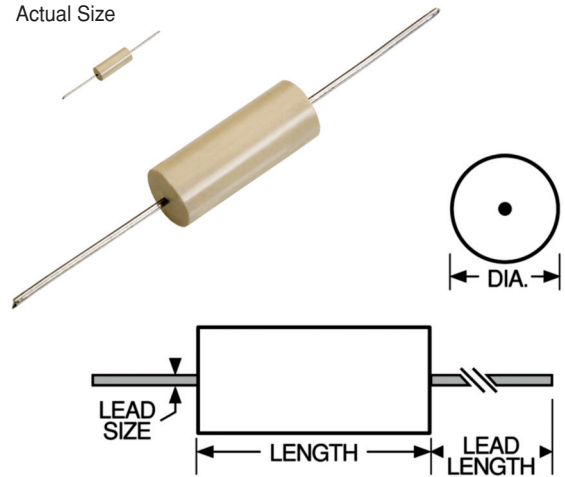
**SERIES**

**0819R**  
**0819**



**Molded Unshielded RF Coils**

Actual Size



**Physical Parameters**

|             | Inches         | Millimeters   |
|-------------|----------------|---------------|
| Length      | 0.200 ± 0.010  | 5.08 ± 0.25   |
| Diameter    | 0.078 ± 0.008  | 1.98 ± 0.20   |
| Lead Size   |                |               |
| AWG #24 TCW | 0.020 ± 0.0015 | 0.508 ± 0.038 |
| Lead Length | 1.5 ± 0.12     | 38.10 ± 3.05  |

**Current Rating at 90°C Ambient**

Phenolic: 35°C Rise  
Iron and Ferrite: 15°C Rise

**Operating Temperature Range**

Phenolic: -55°C to +125°C  
Iron and Ferrite: -55°C to +105°C

**Maximum Power Dissipation at 90°C**

Phenolic: 0.145 W  
Iron and Ferrite: 0.062 W

**Weight Max. (Grams)**

Phenolic: 0.19  
Iron and Ferrite: 0.22

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

Example: 0819-32K

Front:                      Reverse:  
DELEVAN                  0850B  
2.2uH±10%

**Packaging** Tape & reel: 12" reel, 3500 pieces max.; 14" reel, 6000 pieces max.

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

| DASH NUMBER*                     | INDUCTANCE (uH) ±10% | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
|----------------------------------|----------------------|-----------|----------------------|-------------------|------------------------------|-----------------------------|
| <b>SERIES 0819 PHENOLIC CORE</b> |                      |           |                      |                   |                              |                             |
| -00K                             | 0.10                 | 35        | 25.0                 | 680               | 0.13                         | 895                         |
| -02K                             | 0.12                 | 35        | 25.0                 | 650               | 0.15                         | 835                         |
| -04K                             | 0.15                 | 35        | 25.0                 | 560               | 0.18                         | 760                         |
| -06K                             | 0.18                 | 35        | 25.0                 | 540               | 0.21                         | 705                         |
| -08K                             | 0.22                 | 30        | 25.0                 | 500               | 0.25                         | 645                         |
| -10K                             | 0.27                 | 30        | 25.0                 | 440               | 0.38                         | 525                         |
| -12K                             | 0.33                 | 25        | 25.0                 | 410               | 0.49                         | 460                         |
| -14K                             | 0.39                 | 25        | 25.0                 | 380               | 0.59                         | 420                         |
| -16K                             | 0.47                 | 25        | 25.0                 | 340               | 0.62                         | 410                         |
| <b>SERIES 0819 IRON CORE</b>     |                      |           |                      |                   |                              |                             |
| -18K                             | 0.56                 | 40        | 25.0                 | 250               | 0.18                         | 510                         |
| -20K                             | 0.68                 | 40        | 25.0                 | 215               | 0.20                         | 485                         |
| -22K                             | 0.82                 | 40        | 25.0                 | 200               | 0.22                         | 465                         |
| -24K                             | 1.0                  | 40        | 25.0                 | 190               | 0.25                         | 435                         |
| -26K                             | 1.2                  | 35        | 7.9                  | 170               | 0.28                         | 410                         |
| -28K                             | 1.5                  | 40        | 7.9                  | 150               | 0.49                         | 310                         |
| -30K                             | 1.8                  | 40        | 7.9                  | 135               | 0.56                         | 290                         |
| -32K                             | 2.2                  | 45        | 7.9                  | 130               | 0.72                         | 257                         |
| -34K                             | 2.7                  | 45        | 7.9                  | 110               | 0.85                         | 236                         |
| -36K                             | 3.3                  | 45        | 7.9                  | 100               | 1.2                          | 198                         |
| -38K                             | 3.9                  | 50        | 7.9                  | 95                | 1.5                          | 178                         |
| -40K                             | 4.7                  | 55        | 7.9                  | 88                | 2.1                          | 150                         |
| -42K                             | 5.6                  | 55        | 7.9                  | 78                | 2.8                          | 130                         |
| -44K                             | 6.8                  | 55        | 7.9                  | 69                | 3.2                          | 122                         |
| -46K                             | 8.2                  | 45        | 7.9                  | 52                | 4.4                          | 104                         |
| -48K                             | 10.0                 | 45        | 7.9                  | 47                | 5.2                          | 95                          |
| <b>SERIES 0819 FERRITE CORE</b>  |                      |           |                      |                   |                              |                             |
| -50K                             | 12.0                 | 40        | 2.5                  | 31.0              | 3.0                          | 126.0                       |
| -52K                             | 15.0                 | 40        | 2.5                  | 26.0              | 3.4                          | 118.0                       |
| -54K                             | 18.0                 | 40        | 2.5                  | 23.0              | 3.8                          | 112.0                       |
| -56K                             | 22.0                 | 45        | 2.5                  | 20.0              | 4.3                          | 105.0                       |
| -58K                             | 27.0                 | 45        | 2.5                  | 17.0              | 4.7                          | 100.0                       |
| -60K                             | 33.0                 | 45        | 2.5                  | 15.0              | 5.2                          | 95.0                        |
| -62K                             | 39.0                 | 45        | 2.5                  | 13.5              | 6.8                          | 83.5                        |
| -64K                             | 47.0                 | 45        | 2.5                  | 12.5              | 8.2                          | 76.0                        |
| -66K                             | 56.0                 | 45        | 2.5                  | 11.5              | 10.0                         | 69.0                        |
| -68K                             | 68.0                 | 45        | 2.5                  | 10.5              | 11.5                         | 64.0                        |
| -70K                             | 82.0                 | 45        | 2.5                  | 10.0              | 16.0                         | 54.5                        |
| -72K                             | 100.0                | 45        | 2.5                  | 9.5               | 17.5                         | 52.0                        |
| -74K                             | 120.0                | 35        | 0.79                 | 8.9               | 16.0                         | 54.5                        |
| -76K                             | 150.0                | 35        | 0.79                 | 7.9               | 18.0                         | 51.0                        |
| -78K                             | 180.0                | 35        | 0.79                 | 7.5               | 20.0                         | 49.0                        |
| -80K                             | 220.0                | 35        | 0.79                 | 7.1               | 26.5                         | 42.5                        |
| -82K                             | 270.0                | 35        | 0.79                 | 6.6               | 30.5                         | 39.0                        |
| -84K                             | 330.0                | 35        | 0.79                 | 6.2               | 40.5                         | 34.0                        |
| -86K                             | 390.0                | 35        | 0.79                 | 5.9               | 43.0                         | 33.0                        |
| -88K                             | 470.0                | 35        | 0.79                 | 5.4               | 48.0                         | 31.5                        |
| -90K                             | 560.0                | 35        | 0.79                 | 5.0               | 60.0                         | 28.0                        |
| -92K                             | 680.0                | 35        | 0.79                 | 4.5               | 66.0                         | 27.0                        |
| -94K                             | 820.0                | 35        | 0.79                 | 3.9               | 72.0                         | 25.5                        |
| -96K                             | 1000.0               | 35        | 0.79                 | 3.3               | 79.0                         | 24.5                        |

Optional Tolerances: J= 5% 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)