

# SERIES 0805R RoHS Compliant

## Open Construction Wirewound Surface Mount Inductors



### Physical Parameters

|   | Inches            | Millimeters      |
|---|-------------------|------------------|
| A | 0.090 Max.        | 2.29 Max.        |
| B | 0.068 Max.        | 1.73 Max.        |
| C | 0.060 Max.        | 1.52 Max.        |
| D | 0.050 (Ref. only) | 1.27 (Ref. only) |
| E | 0.018 (Ref. only) | 0.44 (Ref. only) |
| F | 0.040 (Ref. only) | 1.03 (Ref. only) |
| G | 0.070             | 1.78             |
| H | 0.040             | 1.02             |
| I | 0.030             | 0.76             |

**Operating Temperature Range** -40°C to +125°C

**Inductance and Q** tested on HP4291A using HP16193A test fixture, or equivalent

**Packaging** Tape & reel (8mm): 7" reel, 2000 pieces max.

### LAND PATTERN DIMENSIONS



| DASH NUMBER*              | INDUCTANCE (nH) ±10% | INDUCTANCE TEST FREQUENCY (MHz) | Q MINIMUM | FREQUENCY Q TEST (MHz) | SFR MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
|---------------------------|----------------------|---------------------------------|-----------|------------------------|-------------------|------------------------------|-----------------------------|
| SERIES 0805R CERAMIC CORE |                      |                                 |           |                        |                   |                              |                             |
| -2N8K                     | 2.8                  | 250                             | 80        | 1500                   | 7900              | 0.06                         | 800                         |
| -3N0K                     | 3.0                  | 250                             | 65        | 1500                   | 7900              | 0.06                         | 800                         |
| -3N3K                     | 3.3                  | 250                             | 50        | 1500                   | 6000              | 0.08                         | 600                         |
| -5N6K                     | 5.6                  | 250                             | 65        | 1000                   | 5500              | 0.08                         | 600                         |
| -6N8K                     | 6.8                  | 250                             | 50        | 1000                   | 5500              | 0.11                         | 600                         |
| -7N5K                     | 7.5                  | 250                             | 50        | 1000                   | 4500              | 0.14                         | 600                         |
| -8N2K                     | 8.2                  | 250                             | 50        | 1000                   | 4700              | 0.12                         | 600                         |
| -10NK                     | 10                   | 250                             | 60        | 500                    | 4200              | 0.10                         | 600                         |
| -12NK                     | 12                   | 250                             | 50        | 500                    | 4000              | 0.15                         | 600                         |
| -15NK                     | 15                   | 250                             | 50        | 500                    | 3400              | 0.17                         | 600                         |
| -18NK                     | 18                   | 250                             | 50        | 500                    | 3300              | 0.20                         | 600                         |
| -22NK                     | 22                   | 250                             | 55        | 500                    | 2600              | 0.22                         | 500                         |
| -24NK                     | 24                   | 250                             | 50        | 500                    | 2000              | 0.22                         | 500                         |
| -27NK                     | 27                   | 250                             | 55        | 500                    | 2500              | 0.25                         | 500                         |
| -33NK                     | 33                   | 250                             | 60        | 500                    | 2050              | 0.27                         | 500                         |
| -36NK                     | 36                   | 250                             | 55        | 500                    | 1700              | 0.27                         | 500                         |
| -39NK                     | 39                   | 250                             | 60        | 500                    | 2000              | 0.29                         | 500                         |
| -43NK                     | 43                   | 200                             | 60        | 500                    | 1650              | 0.34                         | 500                         |
| -47NK                     | 47                   | 200                             | 60        | 500                    | 1650              | 0.31                         | 500                         |
| -56NK                     | 56                   | 200                             | 60        | 500                    | 1550              | 0.34                         | 500                         |
| -68NK                     | 68                   | 200                             | 60        | 500                    | 1450              | 0.38                         | 500                         |
| -82NK                     | 82                   | 150                             | 65        | 500                    | 1300              | 0.42                         | 400                         |
| -91NK                     | 91                   | 150                             | 65        | 500                    | 1200              | 0.48                         | 400                         |
| -101K                     | 100                  | 150                             | 65        | 500                    | 1200              | 0.46                         | 400                         |
| -111K                     | 110                  | 150                             | 50        | 250                    | 1000              | 0.48                         | 400                         |
| -121K                     | 120                  | 150                             | 50        | 250                    | 1100              | 0.51                         | 400                         |
| -151K                     | 150                  | 100                             | 50        | 250                    | 920               | 0.56                         | 400                         |
| -181K                     | 180                  | 100                             | 50        | 250                    | 870               | 0.64                         | 400                         |
| -221K                     | 220                  | 100                             | 50        | 250                    | 850               | 0.70                         | 400                         |
| -241K                     | 240                  | 100                             | 44        | 250                    | 690               | 1.00                         | 350                         |
| -271K                     | 270                  | 100                             | 48        | 250                    | 650               | 1.00                         | 350                         |
| -331K                     | 330                  | 100                             | 48        | 250                    | 600               | 1.40                         | 310                         |
| -391K                     | 390                  | 100                             | 48        | 250                    | 560               | 1.50                         | 290                         |
| -471K                     | 470                  | 50                              | 33        | 100                    | 375               | 1.70                         | 220                         |
| -561K                     | 560                  | 25                              | 23        | 50                     | 340               | 1.90                         | 210                         |
| -621K                     | 620                  | 25                              | 23        | 50                     | 220               | 2.20                         | 210                         |
| -681K                     | 680                  | 25                              | 23        | 50                     | 200               | 2.20                         | 190                         |
| -751K                     | 750                  | 25                              | 23        | 50                     | 200               | 2.30                         | 180                         |
| -821K                     | 820                  | 25                              | 23        | 50                     | 200               | 2.35                         | 180                         |
| -102K                     | 1000                 | 25                              | 20        | 50                     | 100               | 2.50                         | 170                         |
| -122K                     | 1200                 | 7.9                             | 18        | 25                     | 100               | 2.50                         | 170                         |
| -152K                     | 1500                 | 7.9                             | 16        | 25                     | 100               | 2.50                         | 170                         |
| -182K                     | 1800                 | 7.9                             | 16        | 7.9                    | 80                | 2.50                         | 170                         |
| -222K                     | 2200                 | 7.9                             | 16        | 7.9                    | 60                | 2.70                         | 160                         |
| -272K                     | 2700                 | 7.9                             | 16        | 7.9                    | 50                | 2.95                         | 150                         |

Optional Tolerances: 8.2nH & Lower J = 5%

All Other Values: J = 5% G = 2%

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

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