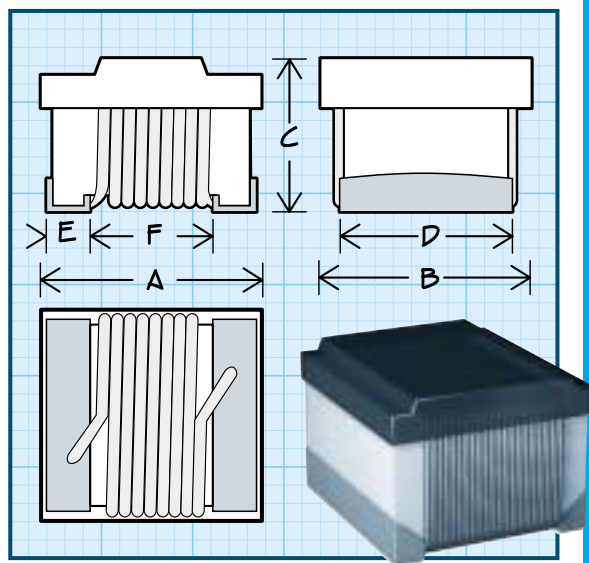


# Series 0805 Open Construction Wirewound Surface Mount Inductors



## 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             |

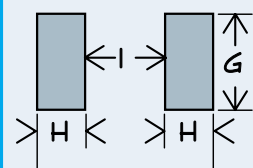
**Operating Temperature Range** -40°C to +125°C

**Standard Termination** 90/10 Solder plating

**Inductance and Q** tested on HP4291A using HP16193A test fixture

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

## LAND PATTERN DIMENSIONS



PART NUMBER

INDUCTANCE  
(nH) ±10%

INDUCTANCE TEST  
FREQUENCY (MHz)

Q MINIMUM

Q TEST

FREQUENCY (MHz)

SRF MINIMUM (MHz)

DC RESISTANCE  
MAXIMUM (ohms)

CURRENT RATING  
MAXIMUM (mA)

## SERIES 0805 CERAMIC CORE

|           |     |     |    |      |      |      |     |
|-----------|-----|-----|----|------|------|------|-----|
| 0805-2N8K | 2.8 | 250 | 80 | 1500 | 7900 | 0.06 | 800 |
| 0805-3N0K | 3   | 250 | 65 | 1500 | 7900 | 0.06 | 800 |
| 0805-3N3K | 3.3 | 250 | 50 | 1500 | 6000 | 0.08 | 600 |
| 0805-5N6K | 5.6 | 250 | 65 | 1000 | 5500 | 0.08 | 600 |
| 0805-6N8K | 6.8 | 250 | 50 | 1000 | 5500 | 0.11 | 600 |
| 0805-7N5K | 7.5 | 250 | 50 | 1000 | 4500 | 0.14 | 600 |
| 0805-8N2K | 8.2 | 250 | 50 | 1000 | 4700 | 0.12 | 600 |
| 0805-10NK | 10  | 250 | 60 | 500  | 4200 | 0.10 | 600 |
| 0805-12NK | 12  | 250 | 50 | 500  | 4000 | 0.15 | 600 |
| 0805-15NK | 15  | 250 | 50 | 500  | 3400 | 0.17 | 600 |
| 0805-18NK | 18  | 250 | 50 | 500  | 3300 | 0.20 | 600 |
| 0805-22NK | 22  | 250 | 55 | 500  | 2600 | 0.22 | 500 |
| 0805-24NK | 24  | 250 | 50 | 500  | 2000 | 0.22 | 500 |
| 0805-27NK | 27  | 250 | 55 | 500  | 2500 | 0.25 | 500 |
| 0805-33NK | 33  | 250 | 60 | 500  | 2050 | 0.27 | 500 |
| 0805-36NK | 36  | 250 | 55 | 500  | 1700 | 0.27 | 500 |
| 0805-39NK | 39  | 250 | 60 | 500  | 2000 | 0.29 | 500 |
| 0805-43NK | 43  | 200 | 60 | 500  | 1650 | 0.34 | 500 |
| 0805-47NK | 47  | 200 | 60 | 500  | 1650 | 0.31 | 500 |
| 0805-56NK | 56  | 200 | 60 | 500  | 1550 | 0.34 | 500 |
| 0805-68NK | 68  | 200 | 60 | 500  | 1450 | 0.38 | 500 |
| 0805-82NK | 82  | 150 | 65 | 500  | 1300 | 0.42 | 400 |
| 0805-91NK | 91  | 150 | 65 | 500  | 1200 | 0.48 | 400 |
| 0805-101K | 100 | 150 | 65 | 500  | 1200 | 0.46 | 400 |
| 0805-111K | 110 | 150 | 50 | 250  | 1000 | 0.48 | 400 |
| 0805-121K | 120 | 150 | 50 | 250  | 1100 | 0.51 | 400 |
| 0805-151K | 150 | 100 | 50 | 250  | 920  | 0.56 | 400 |
| 0805-181K | 180 | 100 | 50 | 250  | 870  | 0.64 | 400 |
| 0805-221K | 220 | 100 | 50 | 250  | 850  | 0.70 | 400 |
| 0805-241K | 240 | 100 | 44 | 250  | 690  | 1.0  | 350 |
| 0805-271K | 270 | 100 | 48 | 250  | 650  | 1.0  | 350 |
| 0805-331K | 330 | 100 | 48 | 250  | 600  | 1.4  | 310 |
| 0805-391K | 390 | 100 | 48 | 250  | 560  | 1.5  | 290 |
| 0805-471K | 470 | 50  | 33 | 100  | 375  | 1.7  | 220 |
| 0805-561K | 560 | 25  | 23 | 50   | 340  | 1.9  | 210 |
| 0805-621K | 620 | 25  | 23 | 50   | 220  | 2.2  | 210 |
| 0805-681K | 680 | 25  | 23 | 50   | 200  | 2.2  | 190 |
| 0805-751K | 750 | 25  | 23 | 50   | 200  | 2.3  | 180 |
| 0805-821K | 820 | 25  | 23 | 50   | 200  | 2.35 | 180 |

Optional Tolerances: 8.2nH & Lower J = 5%

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