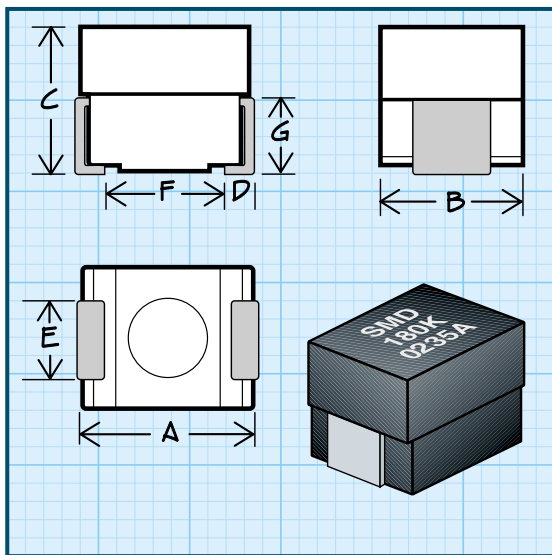


Unshielded Surface Mount Inductors



Physical Parameters

| | Inches | Millimeters |
|---|-------------------|------------------|
| A | 0.095 to 0.115 | 2.41 to 2.92 |
| B | 0.085 to 0.105 | 2.16 to 2.66 |
| C | 0.075 to 0.095 | 1.91 to 2.41 |
| D | 0.010 to 0.030 | 0.26 to 0.76 |
| E | 0.040 to 0.060 | 1.02 to 1.52 |
| F | 0.060 (Ref. only) | 1.52 (Ref. only) |
| G | 0.045 (Ref. only) | 1.14 (Ref. only) |

Dimensions "A" and "C" are over terminals.

Weight Max. (Grams) 0.1

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

Current Rating at 90°C Ambient 35°C Rise

Maximum Power Dissipation at 90°C

Phenolic: 0.169 W

Ferrite: 0.208 W

Packaging Tape & reel (8mm): 7" reel, 2000 pieces max.; 13" reel, 7000 pieces max.

Made In the U.S.A. Patent Protected

DASH NUMBER*

INDUCTANCE (µH)

TOLERANCE

Q MINIMUM

TEST FREQUENCY (MHz)

SRF MINIMUM (MHz)

DC RESISTANCE MAXIMUM (OHMS)

CURRENT RATING MAX. (mA)

SERIES 1008 PHENOLIC CORE

| | | | | | | | |
|-------|--------|------|----|----|------|-------|------|
| -018M | 0.0018 | ±20% | 40 | 50 | 2700 | 0.050 | 1562 |
| -022M | 0.0022 | ±20% | 40 | 50 | 2700 | 0.050 | 1562 |
| -027M | 0.0027 | ±20% | 40 | 50 | 2700 | 0.050 | 1562 |
| -033M | 0.0033 | ±20% | 40 | 50 | 2700 | 0.050 | 1562 |
| -039M | 0.0039 | ±20% | 40 | 50 | 2700 | 0.050 | 1562 |
| -047M | 0.0047 | ±20% | 40 | 50 | 2700 | 0.050 | 1562 |
| -056M | 0.0056 | ±20% | 40 | 50 | 2700 | 0.050 | 1562 |
| -068M | 0.0068 | ±20% | 40 | 50 | 2700 | 0.050 | 1562 |
| -082M | 0.0082 | ±20% | 40 | 50 | 2700 | 0.050 | 1562 |
| -100K | 0.010 | ±10% | 40 | 50 | 2700 | 0.050 | 1562 |
| -120K | 0.012 | ±10% | 40 | 50 | 2450 | 0.058 | 1450 |
| -150K | 0.015 | ±10% | 40 | 50 | 2200 | 0.064 | 1381 |
| -180K | 0.018 | ±10% | 40 | 50 | 2000 | 0.070 | 1320 |
| -220K | 0.022 | ±10% | 35 | 50 | 1800 | 0.080 | 1235 |
| -270K | 0.027 | ±10% | 35 | 50 | 1625 | 0.090 | 1164 |
| -330K | 0.033 | ±10% | 30 | 50 | 1450 | 0.100 | 1105 |
| -390K | 0.039 | ±10% | 30 | 50 | 1335 | 0.110 | 1053 |
| -470K | 0.047 | ±10% | 30 | 50 | 1220 | 0.120 | 1008 |
| -560K | 0.056 | ±10% | 25 | 50 | 1110 | 0.170 | 847 |
| -680K | 0.068 | ±10% | 25 | 50 | 1000 | 0.180 | 823 |
| -820K | 0.082 | ±10% | 25 | 50 | 915 | 0.190 | 801 |
| -101K | 0.100 | ±10% | 15 | 25 | 550 | 0.230 | 728 |

SERIES 1008 FERRITE CORE

| | | | | | | | |
|-------|------|------|----|-----|-----|-------|------|
| -121K | 0.12 | ±10% | 40 | 25 | 750 | 0.100 | 1225 |
| -151K | 0.15 | ±10% | 40 | 25 | 650 | 0.110 | 1168 |
| -181K | 0.18 | ±10% | 40 | 25 | 550 | 0.120 | 1119 |
| -221K | 0.22 | ±10% | 40 | 25 | 450 | 0.135 | 1055 |
| -271K | 0.27 | ±10% | 40 | 25 | 375 | 0.150 | 1000 |
| -331K | 0.33 | ±10% | 40 | 25 | 300 | 0.165 | 954 |
| -391K | 0.39 | ±10% | 40 | 25 | 250 | 0.180 | 913 |
| -471K | 0.47 | ±10% | 40 | 25 | 215 | 0.210 | 846 |
| -561K | 0.56 | ±10% | 40 | 25 | 195 | 0.230 | 808 |
| -681K | 0.68 | ±10% | 40 | 25 | 175 | 0.260 | 760 |
| -821K | 0.82 | ±10% | 40 | 25 | 140 | 0.300 | 708 |
| -102J | 1.0 | ±5% | 30 | 7.9 | 125 | 0.320 | 685 |
| -122J | 1.2 | ±5% | 30 | 7.9 | 100 | 0.430 | 591 |
| -152J | 1.5 | ±5% | 30 | 7.9 | 92 | 0.500 | 548 |
| -182J | 1.8 | ±5% | 30 | 7.9 | 76 | 0.720 | 457 |
| -222J | 2.2 | ±5% | 30 | 7.9 | 70 | 0.800 | 433 |
| -272J | 2.7 | ±5% | 30 | 7.9 | 62 | 0.880 | 413 |
| -332J | 3.3 | ±5% | 30 | 7.9 | 60 | 0.950 | 398 |
| -392J | 3.9 | ±5% | 30 | 7.9 | 57 | 1.20 | 354 |
| -472J | 4.7 | ±5% | 30 | 7.9 | 47 | 1.35 | 334 |
| -562J | 5.6 | ±5% | 30 | 7.9 | 44 | 1.54 | 312 |
| -682J | 6.8 | ±5% | 30 | 7.9 | 35 | 2.00 | 274 |
| -822J | 8.2 | ±5% | 30 | 7.9 | 33 | 2.16 | 264 |
| -103J | 10 | ±5% | 30 | 7.9 | 28 | 2.50 | 245 |
| -123J | 12 | ±5% | 30 | 2.5 | 24 | 3.50 | 207 |
| -153J | 15 | ±5% | 30 | 2.5 | 21 | 4.00 | 194 |
| -183J | 18 | ±5% | 30 | 2.5 | 19 | 5.00 | 173 |
| -223J | 22 | ±5% | 30 | 2.5 | 17 | 6.00 | 158 |
| -273J | 27 | ±5% | 30 | 2.5 | 15 | 7.00 | 146 |
| -333J | 33 | ±5% | 30 | 2.5 | 13 | 8.00 | 135 |
| -393J | 39 | ±5% | 30 | 2.5 | 12 | 9.00 | 125 |
| -473J | 47 | ±5% | 30 | 2.5 | 11 | 10.00 | 120 |

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%

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

For further surface finish information, refer to TECHNICAL section of this catalog.