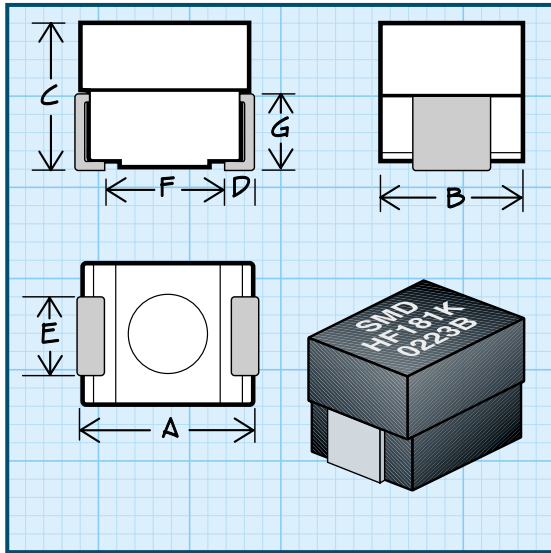


Unshielded Surface Mount Inductors



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

Non-magnetic: 0.169 W

Ferrite: 0.208 W

Note Consult factory for custom applications

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 (nH)

TOLERANCE

Q MINIMUM

TEST FREQUENCY (MHz)

SRF MINIMUM (MHz)

DC RESISTANCE
MAXIMUM (OHMS)

CURRENT RATING
MAX. (mA)

SERIES HF1008 NON-MAGNETIC CORE

| | | | | | | | |
|-------|------|------|----|----|-------|-------|------|
| -047M | 4.7 | ±20% | 40 | 50 | >3000 | 0.070 | 1320 |
| -082M | 8.2 | ±20% | 40 | 50 | >3000 | 0.075 | 1275 |
| -100M | 10.0 | ±20% | 30 | 50 | >3000 | 0.080 | 1235 |
| -120M | 12.0 | ±20% | 30 | 50 | 2700 | 0.105 | 1075 |
| -150M | 15.0 | ±20% | 30 | 50 | 2400 | 0.110 | 1053 |
| -180M | 18.0 | ±20% | 30 | 50 | 2250 | 0.130 | 965 |
| -220M | 22.0 | ±20% | 30 | 50 | 2000 | 0.135 | 950 |
| -270M | 27.0 | ±20% | 30 | 50 | 1800 | 0.140 | 930 |
| -330M | 33.0 | ±20% | 30 | 50 | 1600 | 0.150 | 900 |
| -390M | 39.0 | ±20% | 30 | 50 | 1500 | 0.160 | 870 |
| -470M | 47.0 | ±20% | 30 | 50 | 1350 | 0.170 | 847 |
| -560K | 56.0 | ±10% | 20 | 50 | 1200 | 0.370 | 570 |
| -680K | 68.0 | ±10% | 20 | 50 | 1050 | 0.400 | 550 |
| -820K | 82.0 | ±10% | 15 | 50 | 1000 | 0.800 | 390 |
| -101K | 100 | ±10% | 15 | 25 | 900 | 0.850 | 375 |

SERIES HF1008 FERRITE CORE

| | | | | | | | |
|-------|------|------|----|-----|-----|-------|-----|
| -121K | 120 | ±10% | 30 | 25 | 850 | 0.910 | 405 |
| -151K | 150 | ±10% | 30 | 25 | 800 | 0.950 | 395 |
| -181K | 180 | ±10% | 30 | 25 | 700 | 1.05 | 375 |
| -221K | 220 | ±10% | 30 | 25 | 600 | 1.15 | 360 |
| -271K | 270 | ±10% | 30 | 25 | 550 | 1.25 | 345 |
| -331K | 330 | ±10% | 30 | 25 | 500 | 1.35 | 330 |
| -391K | 390 | ±10% | 30 | 25 | 465 | 1.45 | 320 |
| -471K | 470 | ±10% | 30 | 25 | 425 | 1.55 | 310 |
| -561K | 560 | ±10% | 30 | 25 | 415 | 1.65 | 300 |
| -621K | 620 | ±10% | 30 | 25 | 375 | 1.75 | 290 |
| -681K | 680 | ±10% | 30 | 25 | 340 | 1.85 | 280 |
| -751K | 750 | ±10% | 30 | 25 | 330 | 1.95 | 275 |
| -821K | 820 | ±10% | 30 | 25 | 325 | 2.00 | 273 |
| -911K | 910 | ±10% | 30 | 25 | 305 | 2.05 | 270 |
| -102K | 1000 | ±10% | 30 | 25 | 290 | 1.40 | 325 |
| -122K | 1200 | ±10% | 30 | 7.9 | 200 | 1.45 | 320 |
| -152K | 1500 | ±10% | 30 | 7.9 | 165 | 1.50 | 315 |
| -182K | 1800 | ±10% | 30 | 7.9 | 150 | 1.60 | 305 |
| -222K | 2200 | ±10% | 30 | 7.9 | 120 | 1.65 | 300 |
| -272K | 2700 | ±10% | 30 | 7.9 | 110 | 1.80 | 285 |
| -332K | 3300 | ±10% | 30 | 7.9 | 60 | 1.90 | 280 |
| -392K | 3900 | ±10% | 30 | 7.9 | 50 | 1.95 | 275 |
| -472K | 4700 | ±10% | 30 | 7.9 | 40 | 2.00 | 273 |

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.