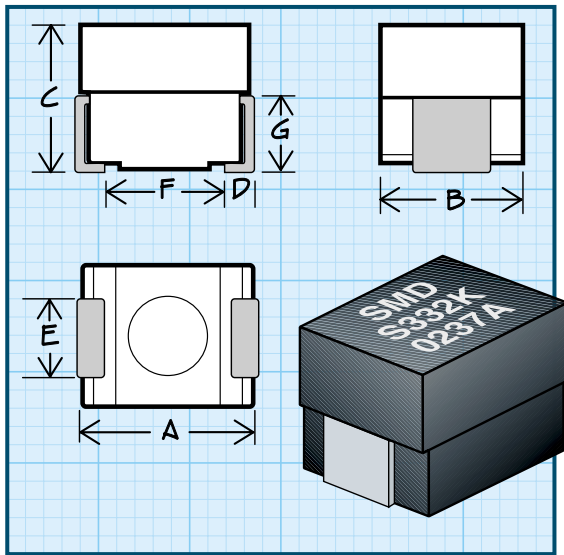


Series S1210

Shielded Surface Mount Inductors



Physical Parameters

| | Inches | Millimeters |
|---|-------------------|------------------|
| A | 0.118 to 0.138 | 3.00 to 3.51 |
| B | 0.085 to 0.105 | 2.16 to 2.66 |
| C | 0.081 to 0.101 | 2.06 to 2.57 |
| D | 0.016 Min. | 0.41 Min. |
| E | 0.041 to .061 | 1.04 to 1.55 |
| F | 0.070 (Ref. only) | 1.78 (Ref. only) |
| G | 0.054 (Ref. only) | 1.37 (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 0.287 W

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

Made In the U.S.A. Patent Protected

| PART NUMBER | INDUCTANCE (μH) ± 10% | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAX. (mA) |
|-------------|-----------------------|-----------|----------------------|-------------------|------------------------------|--------------------------|
|-------------|-----------------------|-----------|----------------------|-------------------|------------------------------|--------------------------|

| SERIES S1210 IRON CORE | | | | | | |
|------------------------|------|----|----|-----|------|------|
| S1210-101K | 0.10 | 40 | 25 | 375 | 0.15 | 1175 |
| S1210-121K | 0.12 | 40 | 25 | 350 | 0.17 | 1104 |
| S1210-151K | 0.15 | 40 | 25 | 330 | 0.20 | 1017 |
| S1210-181K | 0.18 | 40 | 25 | 310 | 0.22 | 971 |
| S1210-221K | 0.22 | 40 | 25 | 300 | 0.25 | 910 |
| S1210-271K | 0.27 | 40 | 25 | 290 | 0.30 | 860 |
| S1210-331K | 0.33 | 40 | 25 | 255 | 0.35 | 831 |
| S1210-391K | 0.39 | 40 | 25 | 230 | 0.40 | 720 |
| S1210-471K | 0.47 | 40 | 25 | 220 | 0.45 | 679 |
| S1210-561K | 0.56 | 40 | 25 | 200 | 0.50 | 644 |
| S1210-681K | 0.68 | 40 | 25 | 180 | 0.55 | 614 |
| S1210-821K | 0.82 | 40 | 25 | 170 | 0.60 | 588 |

| SERIES S1210 FERRITE CORE | | | | | | |
|---------------------------|-------|----|-----|-----|-------|-----|
| S1210-102K | 1.0 | 40 | 7.9 | 140 | 0.40 | 720 |
| S1210-122K | 1.2 | 40 | 7.9 | 120 | 0.49 | 650 |
| S1210-152K | 1.5 | 40 | 7.9 | 110 | 0.57 | 603 |
| S1210-182K | 1.8 | 40 | 7.9 | 95 | 0.65 | 564 |
| S1210-222K | 2.2 | 40 | 7.9 | 80 | 0.73 | 533 |
| S1210-272K | 2.7 | 40 | 7.9 | 70 | 0.75 | 526 |
| S1210-332K | 3.3 | 40 | 7.9 | 45 | 0.80 | 509 |
| S1210-392K | 3.9 | 40 | 7.9 | 42 | 0.83 | 500 |
| S1210-472K | 4.7 | 40 | 7.9 | 40 | 1.00 | 455 |
| S1210-562K | 5.6 | 40 | 7.9 | 38 | 1.30 | 399 |
| S1210-682K | 6.8 | 40 | 7.9 | 35 | 1.50 | 372 |
| S1210-822K | 8.2 | 40 | 7.9 | 32 | 1.70 | 349 |
| S1210-103K | 10.0 | 40 | 2.5 | 28 | 1.90 | 330 |
| S1210-123K | 12.0 | 40 | 2.5 | 25 | 2.10 | 314 |
| S1210-153K | 15.0 | 40 | 2.5 | 23 | 2.50 | 288 |
| S1210-183K | 18.0 | 40 | 2.5 | 21 | 2.80 | 272 |
| S1210-223K | 22.0 | 40 | 2.5 | 19 | 3.00 | 262 |
| S1210-273K | 27.0 | 40 | 2.5 | 16 | 4.00 | 228 |
| S1210-333K | 33.0 | 40 | 2.5 | 14 | 4.50 | 215 |
| S1210-393K | 39.0 | 40 | 2.5 | 12 | 5.00 | 204 |
| S1210-473K | 47.0 | 40 | 2.5 | 10 | 5.50 | 194 |
| S1210-563K | 56.0 | 40 | 2.5 | 8 | 6.30 | 181 |
| S1210-683K | 68.0 | 40 | 2.5 | 8 | 7.00 | 172 |
| S1210-823K | 82.0 | 40 | 2.5 | 8 | 8.50 | 156 |
| S1210-104K | 100.0 | 40 | 2.5 | 8 | 10.00 | 144 |

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

For more detailed graphs, contact factory

