



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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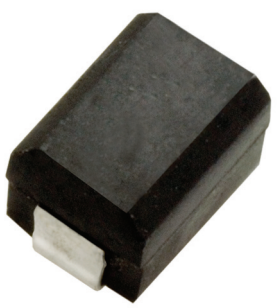
**SERIES**

**S1812R**  
**S1812**

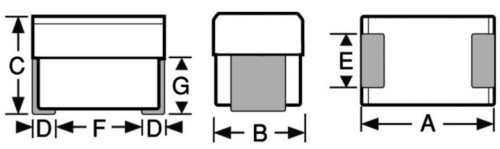


**Shielded Surface Mount Inductors**

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



Actual Size



**Physical Parameters**

|   | Inches            | Millimeters     |
|---|-------------------|-----------------|
| A | 0.166 to 0.190    | 4.2 to 4.8      |
| B | 0.118 to 0.134    | 3.0 to 3.4      |
| C | 0.118 to 0.134    | 3.0 to 3.4      |
| D | 0.015 Min.        | 0.38 Min.       |
| E | 0.054 to 0.078    | 1.37 to 1.98    |
| F | 0.118 (Ref. only) | 3.0 (Ref. only) |
| G | 0.066 (Ref. only) | 1.7 (Ref. only) |

Dimensions "A" and "C" are over terminals

**Weight Max.** (Grams) 0.15

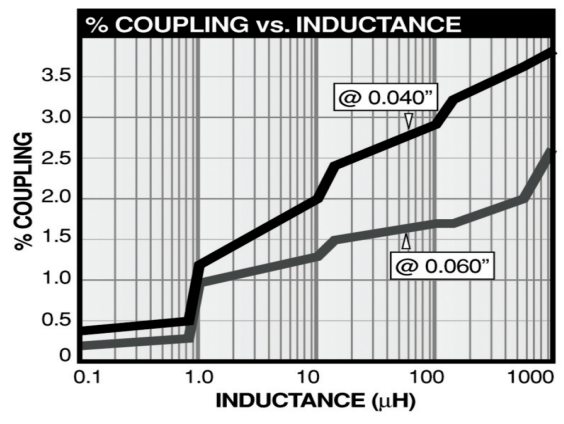
**Operating Temperature Range** -55°C to +125°C

**Current Rating at 90°C Ambient** 35°C Rise

**Maximum Power Dissipation at 90°C** 0.278 W

**Marking** API/SMD; inductance with units and tolerance followed by an S; date code (YYWWL). Note: An R before the date code indicates a RoHS component.

Example: S1812R-102K  
API/SMD  
1.0uH±10%S  
R 0743A



For more detailed graphs, contact factory

| SERIES S1812 IRON CORE    |      |    |      |     |      |      |
|---------------------------|------|----|------|-----|------|------|
| -101K                     | 0.10 | 50 | 25   | 460 | 0.09 | 1490 |
| -121K                     | 0.12 | 50 | 25   | 400 | 0.10 | 1412 |
| -151K                     | 0.15 | 50 | 25   | 390 | 0.11 | 1347 |
| -181K                     | 0.18 | 50 | 25   | 350 | 0.12 | 1290 |
| -221K                     | 0.22 | 50 | 25   | 310 | 0.15 | 1154 |
| -271K                     | 0.27 | 50 | 25   | 280 | 0.18 | 1053 |
| -331K                     | 0.33 | 40 | 25   | 240 | 0.22 | 952  |
| -391K                     | 0.39 | 40 | 25   | 215 | 0.26 | 876  |
| -471K                     | 0.47 | 40 | 25   | 205 | 0.31 | 802  |
| -561K                     | 0.56 | 40 | 25   | 185 | 0.37 | 735  |
| -681K                     | 0.68 | 40 | 25   | 166 | 0.44 | 675  |
| -821K                     | 0.82 | 40 | 25   | 155 | 0.53 | 614  |
| SERIES S1812 FERRITE CORE |      |    |      |     |      |      |
| -102K                     | 1.0  | 40 | 7.9  | 160 | 0.35 | 755  |
| -122K                     | 1.2  | 40 | 7.9  | 140 | 0.38 | 725  |
| -152K                     | 1.5  | 40 | 7.9  | 110 | 0.40 | 706  |
| -182K                     | 1.8  | 40 | 7.9  | 100 | 0.43 | 681  |
| -222K                     | 2.2  | 40 | 7.9  | 90  | 0.46 | 658  |
| -272K                     | 2.7  | 40 | 7.9  | 67  | 0.49 | 638  |
| -332K                     | 3.3  | 40 | 7.9  | 61  | 0.70 | 534  |
| -392K                     | 3.9  | 40 | 7.9  | 56  | 0.84 | 487  |
| -472K                     | 4.7  | 40 | 7.9  | 50  | 0.90 | 471  |
| -562K                     | 5.6  | 40 | 7.9  | 40  | 1.00 | 447  |
| -682K                     | 6.8  | 40 | 7.9  | 32  | 1.20 | 408  |
| -822K                     | 8.2  | 40 | 7.9  | 30  | 1.44 | 372  |
| -103K                     | 10   | 50 | 2.5  | 25  | 1.80 | 333  |
| -123K                     | 12   | 50 | 2.5  | 22  | 2.00 | 315  |
| -153K                     | 15   | 50 | 2.5  | 18  | 2.20 | 301  |
| -183K                     | 18   | 50 | 2.5  | 15  | 2.40 | 288  |
| -223K                     | 22   | 50 | 2.5  | 14  | 2.60 | 277  |
| -273K                     | 27   | 50 | 2.5  | 13  | 2.80 | 267  |
| -333K                     | 33   | 50 | 2.5  | 12  | 3.00 | 258  |
| -393K                     | 39   | 50 | 2.5  | 11  | 3.20 | 250  |
| -473K                     | 47   | 50 | 2.5  | 9.0 | 3.40 | 242  |
| -563K                     | 56   | 50 | 2.5  | 8.0 | 3.60 | 235  |
| -683K                     | 68   | 50 | 2.5  | 7.6 | 4.30 | 215  |
| -823K                     | 82   | 50 | 2.5  | 7.2 | 5.20 | 196  |
| -104K                     | 100  | 40 | 0.79 | 7.0 | 7.00 | 169  |
| -124K                     | 120  | 40 | 0.79 | 6.0 | 7.50 | 163  |
| -154K                     | 150  | 40 | 0.79 | 5.0 | 8.00 | 158  |
| -184K                     | 180  | 40 | 0.79 | 4.5 | 8.50 | 153  |
| -224K                     | 220  | 40 | 0.79 | 4.2 | 9.00 | 149  |
| -274K                     | 270  | 40 | 0.79 | 4.0 | 11.0 | 135  |
| -334K                     | 330  | 40 | 0.79 | 3.7 | 12.0 | 129  |
| -394K                     | 390  | 40 | 0.79 | 3.5 | 18.0 | 105  |
| -474K                     | 470  | 40 | 0.79 | 3.3 | 24.0 | 91   |
| -564K                     | 560  | 40 | 0.79 | 2.8 | 28.0 | 84   |
| -684K                     | 680  | 40 | 0.79 | 2.6 | 32.0 | 79   |
| -824K                     | 820  | 40 | 0.79 | 2.2 | 40.0 | 71   |
| -105K                     | 1000 | 40 | 0.79 | 2.0 | 55.0 | 60   |

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

**Packaging** Tape & reel (12mm): 7" reel, 650 pieces max.; 13" reel, 2500 pieces max.

**Made In the U.S.A.**