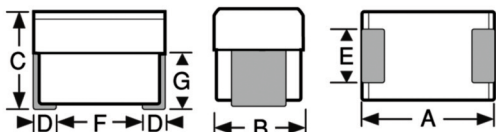


**SERIES****SP1812R  
SP1812****Shielded Surface Mount Power Inductors**

DASH NUMBER\*

INDUCTANCE ( $\mu$ H)  
 $\pm 10\%$  @ 1 kHzDC RESISTANCE  
MAXIMUM (OHMS)CURRENT RATING  
MAXIMUM (mA DC)INCREMENTAL  
CURRENT (mA DC)

Actual Size

**Physical Parameters**

|   | Inches            | Millimeters      |
|---|-------------------|------------------|
| A | 0.166 to 0.190    | 4.22 to 4.83     |
| B | 0.118 to 1.34     | 3.00 to 3.40     |
| C | 0.118 to 1.34     | 3.00 to 3.40     |
| D | 0.015 Min.        | 0.38 Min.        |
| E | 0.054 to 0.078    | 1.37 to 1.98     |
| F | 0.118 (Ref. only) | 3.00 (Ref. only) |
| G | 0.066 (Ref. only) | 1.68 (Ref. only) |

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

**Operating Temperature Range**  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ **Current Rating at  $90^{\circ}\text{C}$  Ambient**  $35^{\circ}\text{C}$  Rise**Maximum Power Dissipation at  $90^{\circ}\text{C}$**  0.287 W**Inductance** Measured at 1V with no DC current**Incremental Current** The current at which the inductance will be decreased by a maximum of 10% from its initial DC value**Marking** Delevan; dash number followed by SP; date code (YYWWL). Note: An R before the date code indicates a RoHS component.

Example: SP1812R-182K

DELEVAN  
182 SP  
R 1804A

**Packaging** Tape & reel (12mm): 7" reel, 650 pieces max.;  
13" reel, 2500 pieces max.**Coupling** 5% Typical (Ref. M83446, 1mm spacing)**Made In the U.S.A.****SERIES SP1812 FERRITE CORE**

|       |      |       |      |      |
|-------|------|-------|------|------|
| -102K | 1.00 | 0.081 | 1580 | 2060 |
| -122K | 1.20 | 0.088 | 1510 | 1890 |
| -152K | 1.50 | 0.098 | 1430 | 1690 |
| -182K | 1.80 | 0.11  | 1360 | 1540 |
| -222K | 2.20 | 0.15  | 1170 | 1390 |
| -272K | 2.70 | 0.16  | 1110 | 1270 |
| -332K | 3.30 | 0.18  | 1060 | 1150 |
| -392K | 3.90 | 0.20  | 1000 | 1000 |
| -472K | 4.70 | 0.21  | 969  | 959  |
| -562K | 5.60 | 0.24  | 920  | 866  |
| -682K | 6.80 | 0.26  | 878  | 789  |
| -822K | 8.20 | 0.28  | 842  | 724  |
| -103K | 10.0 | 0.31  | 802  | 657  |
| -123K | 12.0 | 0.34  | 767  | 602  |
| -153K | 15.0 | 0.49  | 640  | 530  |
| -183K | 18.0 | 0.68  | 613  | 486  |
| -223K | 22.0 | 0.75  | 509  | 438  |
| -273K | 27.0 | 1.0   | 430  | 400  |
| -333K | 33.0 | 1.2   | 408  | 359  |
| -393K | 39.0 | 1.6   | 354  | 332  |
| -473K | 47.0 | 1.8   | 335  | 296  |
| -563K | 56.0 | 1.9   | 323  | 275  |
| -683K | 68.0 | 2.7   | 275  | 250  |
| -823K | 82.0 | 2.9   | 262  | 228  |
| -104K | 100  | 3.2   | 250  | 206  |
| -124K | 120  | 4.6   | 210  | 188  |
| -154K | 150  | 5.1   | 198  | 168  |
| -184K | 180  | 6.7   | 172  | 154  |
| -224K | 220  | 7.5   | 164  | 139  |
| -274K | 270  | 9.8   | 143  | 125  |
| -334K | 330  | 10.9  | 136  | 113  |

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

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

For surface finish information, refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)