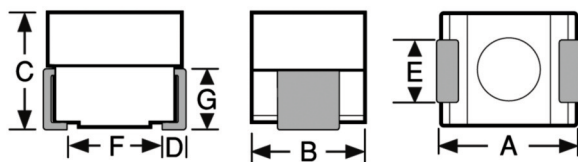


**SERIES****SP1210R  
SP1210****Shielded Surface Mount Power Inductors**

DASH NUMBER\*

INDUCTANCE (μH)  
±10% @100 kHzDC RESISTANCE  
MAXIMUM (OHMS)CURRENT RATING  
MAXIMUM (mA DC)INCREMENTAL  
CURRENT (mA DC)

Actual Size

**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 0.061    | 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.

**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**Inductance** Measured at 1V with no DC current**Incremental Current** The current at which the inductance will be decreased by a maximum of 5% from its initial DC value**Marking** API, dash number with tolerance letter followed by a P, date code/lot (YYWWL). Note: An R before the date code/lot symbol indicates a RoHS component.

Example: SP1210R-102J

API  
102JP  
R 1028A

**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 SP1210 FERRITE CORE**

|       |       |       |      |      |
|-------|-------|-------|------|------|
| -471K | 0.470 | 0.100 | 1440 | 1870 |
| -561K | 0.560 | 0.109 | 1380 | 1720 |
| -681K | 0.680 | 0.119 | 1320 | 1580 |
| -821K | 0.820 | 0.133 | 1250 | 1420 |
| -102K | 1.00  | 0.147 | 1190 | 1290 |
| -122K | 1.20  | 0.160 | 1140 | 1180 |
| -152K | 1.5   | 0.175 | 1080 | 1060 |
| -182K | 1.80  | 0.195 | 1030 | 965  |
| -222K | 2.20  | 0.211 | 992  | 892  |
| -272K | 2.70  | 0.305 | 826  | 784  |
| -332K | 3.30  | 0.440 | 692  | 718  |
| -392K | 3.90  | 0.470 | 665  | 665  |
| -472K | 4.70  | 0.520 | 633  | 601  |
| -562K | 5.60  | 0.570 | 606  | 550  |
| -682K | 6.80  | 0.630 | 576  | 497  |
| -822K | 8.20  | 0.880 | 487  | 454  |
| -103K | 10.0  | 0.960 | 464  | 410  |
| -123K | 12.0  | 1.3   | 400  | 375  |
| -153K | 15.0  | 1.8   | 338  | 336  |
| -183K | 18.0  | 2.0   | 322  | 304  |
| -223K | 22.0  | 2.2   | 306  | 275  |
| -273K | 27.0  | 2.5   | 291  | 249  |
| -333K | 33.0  | 3.5   | 243  | 225  |
| -393K | 39.0  | 4.6   | 212  | 207  |
| -473K | 47.0  | 5.0   | 203  | 189  |
| -563K | 56.0  | 5.5   | 194  | 174  |
| -683K | 68.0  | 6.1   | 185  | 157  |
| -823K | 82.0  | 7.9   | 162  | 143  |
| -104K | 100   | 8.7   | 154  | 129  |
| -124K | 120   | 9.6   | 147  | 118  |
| -154K | 150   | 13.5  | 124  | 106  |
| -184K | 180   | 14.7  | 119  | 96   |
| -224K | 220   | 20.7  | 100  | 87   |
| -274K | 270   | 23.0  | 95   | 79   |
| -334K | 330   | 26.8  | 88   | 71   |
| -394K | 390   | 32.4  | 80   | 65   |

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)