

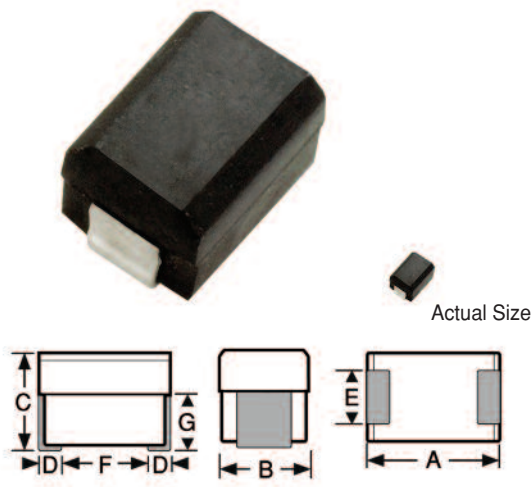
**SERIES**

**SP1812R**  
**SP1812**



**Shielded Surface Mount Power Inductors**

DASH NUMBER\*  
INDUCTANCE (μH)  
±10% @ 1 KHZ  
DC 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°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 10% from its initial DC value

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

Example: SP1812R-182K  
API/SMD  
1.8μH±10%SP  
R 0904A

**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)