



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!



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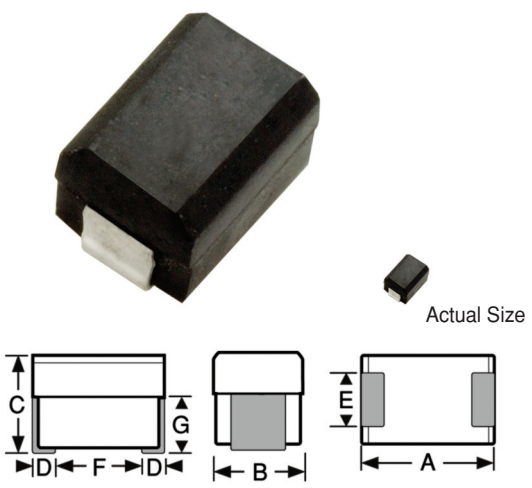
SERIES

**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)



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
1.8uH±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