



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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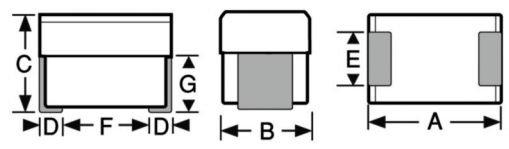
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



**Unshielded Surface Mount Inductors**



Actual Size



**Physical Parameters**

	Inches	Millimeters
A	0.166 to 0.190	4.22 to 4.83
B	0.118 to 0.134	3.00 to 3.40
C	0.118 to 0.134	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**

Iron and Ferrite: 0.278 W  
 Phenolic: 0.210 W

\* **Note** Self Resonant Frequency (SRF) values are calculated and for reference only.

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

Example: 1812R-105J  
 API/SMD  
 1mH±5%  
 R 0629A

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

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

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%  
 \*Complete part # must include series # PLUS the dash #  
 For surface finish information, refer to www.delevanfinishes.com

DASH NUMBER*	INDUCTANCE (µH)	TOLERANCE	Q MINIMUM	TEST FREQUENCY (MHz)	SRF MINIMUM (MHz)	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAXIMUM (mA)
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SERIES 1812 PHENOLIC CORE							
-100M	0.010	±20%	40	50	1000*	0.10	1230
-120M	0.012	±20%	40	50	1000*	0.10	1230
-150M	0.015	±20%	40	50	1000*	0.10	1230
-180M	0.018	±20%	40	50	1000*	0.10	1230
-220M	0.022	±20%	40	50	1000*	0.10	1230
-270M	0.027	±20%	40	50	1000*	0.15	1000
-330M	0.033	±20%	40	50	1000*	0.15	1000
-390M	0.039	±20%	30	50	1000*	0.20	870
-470M	0.047	±20%	30	50	1000*	0.20	870
-560M	0.056	±20%	30	50	850*	0.25	770
-680M	0.068	±20%	25	50	750*	0.25	770
-820M	0.082	±20%	25	50	750*	0.25	700
SERIES 1812 IRON CORE							
-101K	0.10	±10%	30	25	650	0.30	818
-121K	0.12	±10%	30	25	600	0.30	818
-151K	0.15	±10%	30	25	500	0.30	818
-181K	0.18	±10%	30	25	400	0.35	757
-221K	0.22	±10%	30	25	350	0.40	708
-271K	0.27	±10%	30	25	300	0.45	668
-331K	0.33	±10%	30	25	250	0.55	604
-391K	0.39	±10%	30	25	220	0.70	535
-471K	0.47	±10%	30	25	190	0.80	501
-561K	0.56	±10%	30	25	170	1.20	409
-681K	0.68	±10%	30	25	150	1.40	379
-821K	0.82	±10%	30	25	140	1.60	354
SERIES 1812 FERRITE CORE							
-102J	1.0	±5%	50	7.9	100	0.50	634
-122J	1.2	±5%	50	7.9	80	0.55	604
-152J	1.5	±5%	50	7.9	70	0.60	578
-182J	1.8	±5%	50	7.9	60	0.65	556
-222J	2.2	±5%	50	7.9	55	0.70	535
-272J	2.7	±5%	50	7.9	50	0.75	517
-332J	3.3	±5%	50	7.9	45	0.80	501
-392J	3.9	±5%	50	7.9	40	0.90	472
-472J	4.7	±5%	50	7.9	35	1.00	448
-562J	5.6	±5%	50	7.9	33	1.10	427
-682J	6.8	±5%	50	7.9	27	1.20	409
-822J	8.2	±5%	50	7.9	25	1.40	375
-103J	10	±5%	50	7.9	20	1.60	354
-123J	12	±5%	50	2.5	18	2.00	317
-153J	15	±5%	50	2.5	17	2.50	283
-183J	18	±5%	50	2.5	15	2.80	268
-223J	22	±5%	50	2.5	13	3.20	250
-273J	27	±5%	50	2.5	12	3.60	236
-333J	33	±5%	50	2.5	11	4.00	224
-393J	39	±5%	50	2.5	10	4.50	211
-473J	47	±5%	50	2.5	10	5.00	200
-563J	56	±5%	50	2.5	9	5.50	191
-683J	68	±5%	50	2.5	9	6.00	183
-823J	82	±5%	50	2.5	8	7.00	169
-104J	100	±5%	50	2.5	8	8.00	158
-124J	120	±5%	40	0.79	6	8.0	158
-154J	150	±5%	40	0.79	6	9.0	149
-184J	180	±5%	40	0.79	5	9.5	145
-224J	220	±5%	40	0.79	4	10.0	142
-274J	270	±5%	40	0.79	4	12.0	129
-334J	330	±5%	40	0.79	3.5	14.0	120
-394J	390	±5%	40	0.79	3.0	20.0	100
-474J	470	±5%	40	0.79	3.0	26.0	88
-564J	560	±5%	30	0.79	3.0	30.0	82
-684J	680	±5%	30	0.79	3.0	30.0	82
-824J	820	±5%	30	0.79	2.5	45.0	67
-105J	1000	±5%	30	0.79	2.5	60.0	55