

**SERIES**

**SP1008R  
SP1008**

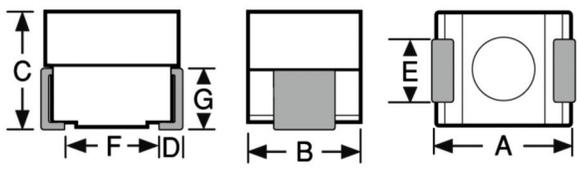


**Shielded Surface Mount Power Inductors**

DASH NUMBER\*  
INDUCTANCE (μH)  
±10% @ 100 KHZ  
DC RESISTANCE  
MAXIMUM (OHMS)  
CURRENT RATING  
MAXIMUM (mA)



Actual Size



**Physical Parameters**

	Inches	Millimeters
A	0.095 to 0.115	2.41 to 2.92
B	0.085 to 0.105	2.16 to 2.66
C	0.0755 to 0.095	1.91 to 2.41
D	0.010 to 0.030	0.26 to 0.76
E	0.040 to 0.060	1.02 to 1.52
F	0.060 (Ref. only)	1.52 (Ref. only)
G	0.045 (Ref. only)	1.14 (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

**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 0 ADC value.

**Marking** SMD; dash number with tolerance letter followed by a P; date code (YYWWL). Note: An R before the date code indicates a RoHS component.

Example: SP1008-104K

SMD  
104KP  
0925A

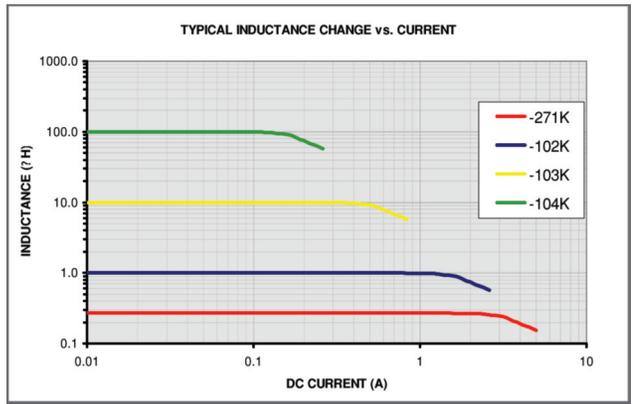
**Packaging** Tape & reel (8mm): 7" reel, 2000 pieces max.; 13" reel, 7000 pieces max.

Coupling 5% Typical (Ref. M83446, 1mm spacing)

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

SERIES SP1008 FERRITE CORE			
-271K	0.270	0.099	1070
-331K	0.330	0.108	1030
-391K	0.390	0.118	980
-471K	0.470	0.128	941
-561K	0.560	0.147	878
-681K	0.680	0.157	850
-821K	0.820	0.167	824
-102K	1.00	0.228	705
-122K	1.20	0.252	671
-152K	1.50	0.288	627
-182K	1.80	0.392	538
-222K	2.20	0.437	509
-272K	2.70	0.482	485
-332K	3.30	0.527	465
-392K	3.90	0.739	392
-472K	4.70	0.817	372
-562K	5.60	0.895	356
-682K	6.80	1.43	282
-822K	8.20	1.54	271
-103K	10.0	1.70	258
-123K	12.0	1.87	246
-153K	15.0	2.10	232
-183K	18.0	2.88	198
-223K	22.0	4.02	168
-273K	27.0	4.50	159
-333K	33.0	4.90	152
-393K	39.0	5.30	146
-473K	47.0	5.90	139
-563K	56.0	6.40	133
-683K	68.0	9.00	112
-823K	82.0	9.90	107
-104K	100	10.9	102

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)



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