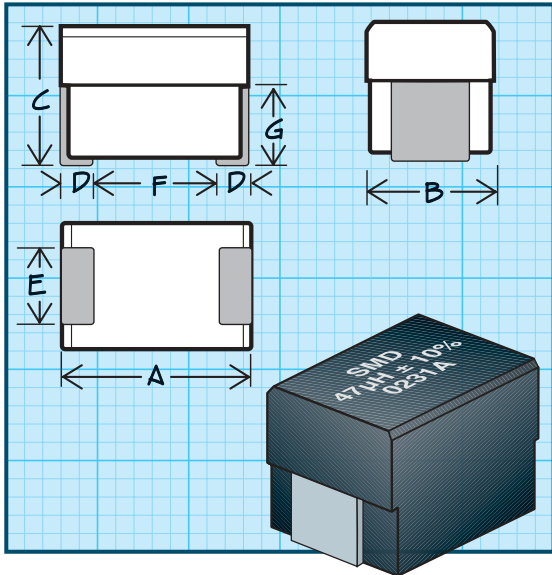


# Series S1812

## Shielded Surface Mount Inductors



### Physical Parameters

	Inches	Millimeters
A	0.166 to 0.190	4.2 to 4.8
B	0.118 to 0.134	3.0 to 3.4
C	0.118 to 0.134	3.0 to 3.4
D	0.038 Min.	0.97 Min.
E	0.041 to 0.061	1.0 to 1.5
F	0.118 (Ref. only)	3.0 (Ref. only)
G	0.066 (Ref. only)	1.7 (Ref. only)

Dimensions "A" and "C" are over terminals

**Weight Max.** (Grams) 0.15

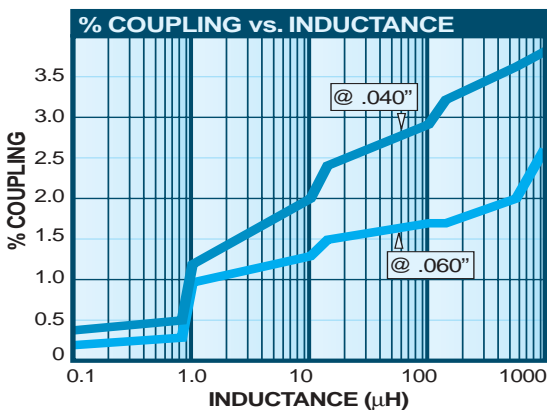
**Operating Temperature Range** -55°C to +125°C

**Current Rating at 90°C Ambient** 35°C Rise

**Maximum Power Dissipation at 90°C** 0.278 W

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

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



For more detailed graphs, contact factory

PART NUMBER

INDUCTANCE  
(µH) ±10%

Q MINIMUM

TEST FREQUENCY (MHz)

SRF MINIMUM (MHz)

DCR RESISTANCE  
MAXIMUM (OHMS)

CURRENT RATING  
MAX. (mA)

### SERIES S1812 IRON CORE

S1812-101K	0.10	50	25	460	0.09	1490
S1812-121K	0.12	50	25	400	0.10	1412
S1812-151K	0.15	50	25	390	0.11	1347
S1812-181K	0.18	50	25	350	0.12	1290
S1812-221K	0.22	50	25	310	0.15	1154
S1812-271K	0.27	50	25	280	0.18	1053
S1812-331K	0.33	40	25	240	0.22	952
S1812-391K	0.39	40	25	215	0.26	876
S1812-471K	0.47	40	25	205	0.31	802
S1812-561K	0.56	40	25	185	0.37	735
S1812-681K	0.68	40	25	166	0.44	675
S1812-821K	0.82	40	25	155	0.53	614

### SERIES S1812 FERRITE CORE

S1812-102K	1.0	40	7.9	160	0.35	755
S1812-122K	1.2	40	7.9	140	0.38	725
S1812-152K	1.5	40	7.9	110	0.40	706
S1812-182K	1.8	40	7.9	100	0.43	681
S1812-222K	2.2	40	7.9	90	0.46	658
S1812-272K	2.7	40	7.9	67	0.49	638
S1812-332K	3.3	40	7.9	61	0.70	534
S1812-392K	3.9	40	7.9	56	0.84	487
S1812-472K	4.7	40	7.9	50	0.90	471
S1812-562K	5.6	40	7.9	40	1.00	447
S1812-682K	6.8	40	7.9	32	1.20	408
S1812-822K	8.2	40	7.9	30	1.44	372
S1812-103K	10	50	2.5	25	1.80	333
S1812-123K	12	50	2.5	22	2.00	315
S1812-153K	15	50	2.5	18	2.20	301
S1812-183K	18	50	2.5	15	2.40	288
S1812-223K	22	50	2.5	14	2.60	277
S1812-273K	27	50	2.5	13	2.80	267
S1812-333K	33	50	2.5	12	3.00	258
S1812-393K	39	50	2.5	11	3.20	250
S1812-473K	47	50	2.5	9.0	3.40	242
S1812-563K	56	50	2.5	8.0	3.60	235
S1812-683K	68	50	2.5	7.6	4.30	215
S1812-823K	82	50	2.5	7.2	5.20	196
S1812-104K	100	40	0.79	7.0	7.00	169
S1812-124K	120	40	0.79	6.0	7.50	163
S1812-154K	150	40	0.79	5.0	8.00	158
S1812-184K	180	40	0.79	4.5	8.50	153
S1812-224K	220	40	0.79	4.2	9.00	149
S1812-274K	270	40	0.79	4.0	11.0	135
S1812-334K	330	40	0.79	3.7	12.0	129
S1812-394K	390	40	0.79	3.5	18.0	105
S1812-474K	470	40	0.79	3.3	24.0	91
S1812-564K	560	40	0.79	2.8	28.0	84
S1812-684K	680	40	0.79	2.6	32.0	79
S1812-824K	820	40	0.79	2.2	40.0	71
S1812-105K	1000	40	0.79	2.0	55.0	60

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%