

SERIES**S1812R
S1812****Shielded Surface Mount Inductors**

Actual Size

**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	0.015 Min.	0.38 Min.
E	0.054 to 0.078	1.37 to 1.98
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

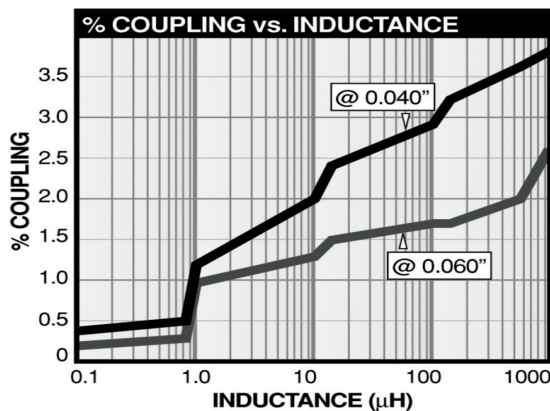
Marking API/SMD; inductance with units and tolerance followed by an S; date code (YYWWL). Note: An R before the date code indicates a RoHS component.

Example: S1812R-102K

API/SMD

1.0uH±10%S

R 0743A



For more detailed graphs, contact factory

RF Inductor							
DASH NUMBER*	INDUCTANCE (μH) ±10%	Q MINIMUM	TEST FREQUENCY (MHz)	SRF MINIMUM (MHz)	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAXIMUM (mA)	
S	SERIES S1812 IRON CORE						
	-101K	0.10	50	25	460	0.09	1490
	-121K	0.12	50	25	400	0.10	1412
	-151K	0.15	50	25	390	0.11	1347
	-181K	0.18	50	25	350	0.12	1290
	-221K	0.22	50	25	310	0.15	1154
	-271K	0.27	50	25	280	0.18	1053
	-331K	0.33	40	25	240	0.22	952
	-391K	0.39	40	25	215	0.26	876
	-471K	0.47	40	25	205	0.31	802
	-561K	0.56	40	25	185	0.37	735
	-681K	0.68	40	25	166	0.44	675
	-821K	0.82	40	25	155	0.53	614
	SERIES S1812 FERRITE CORE						
	-102K	1.0	40	7.9	160	0.35	755
	-122K	1.2	40	7.9	140	0.38	725
	-152K	1.5	40	7.9	110	0.40	706
	-182K	1.8	40	7.9	100	0.43	681
	-222K	2.2	40	7.9	90	0.46	658
	-272K	2.7	40	7.9	67	0.49	638
	-332K	3.3	40	7.9	61	0.70	534
	-392K	3.9	40	7.9	56	0.84	487
	-472K	4.7	40	7.9	50	0.90	471
	-562K	5.6	40	7.9	40	1.00	447
	-682K	6.8	40	7.9	32	1.20	408
	-822K	8.2	40	7.9	30	1.44	372
	-103K	10	50	2.5	25	1.80	333
	-123K	12	50	2.5	22	2.00	315
	-153K	15	50	2.5	18	2.20	301
	-183K	18	50	2.5	15	2.40	288
	-223K	22	50	2.5	14	2.60	277
	-273K	27	50	2.5	13	2.80	267
	-333K	33	50	2.5	12	3.00	258
	-393K	39	50	2.5	11	3.20	250
	-473K	47	50	2.5	9.0	3.40	242
	-563K	56	50	2.5	8.0	3.60	235
	-683K	68	50	2.5	7.6	4.30	215
	-823K	82	50	2.5	7.2	5.20	196
	-104K	100	40	0.79	7.0	7.00	169
	-124K	120	40	0.79	6.0	7.50	163
-154K	150	40	0.79	5.0	8.00	158	
-184K	180	40	0.79	4.5	8.50	153	
-224K	220	40	0.79	4.2	9.00	149	
-274K	270	40	0.79	4.0	11.0	135	
-334K	330	40	0.79	3.7	12.0	129	
-394K	390	40	0.79	3.5	18.0	105	
-474K	470	40	0.79	3.3	24.0	91	
-564K	560	40	0.79	2.8	28.0	84	
-684K	680	40	0.79	2.6	32.0	79	
-824K	820	40	0.79	2.2	40.0	71	
-105K	1000	40	0.79	2.0	55.0	60	

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

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

Made In the U.S.A.