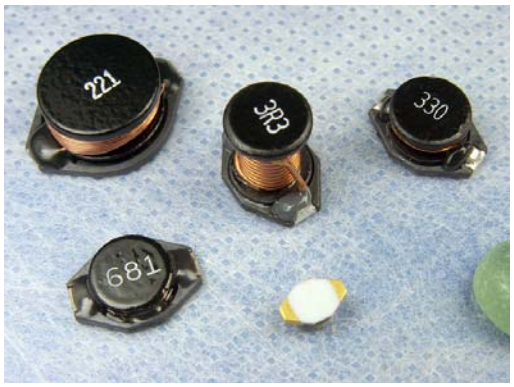
SMD UNSHIELDED POWER INDUCTORS

COMPONENT

PRODUCT IDENTIFICATION



SGN 1606F - 1R0 M

A B C D

A： SMD POWER CHOKE

B： DIMENSION CODE

C： INDUCTANCE CODE

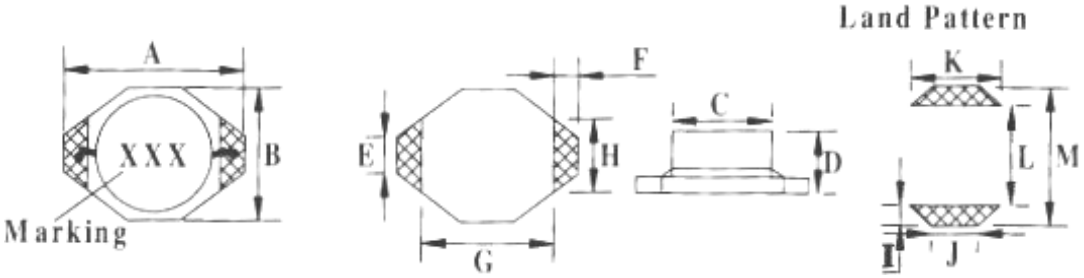
D： TOLERANCE (K:10%,L:15%,M:20%,N:30%)

APPLICATIONS

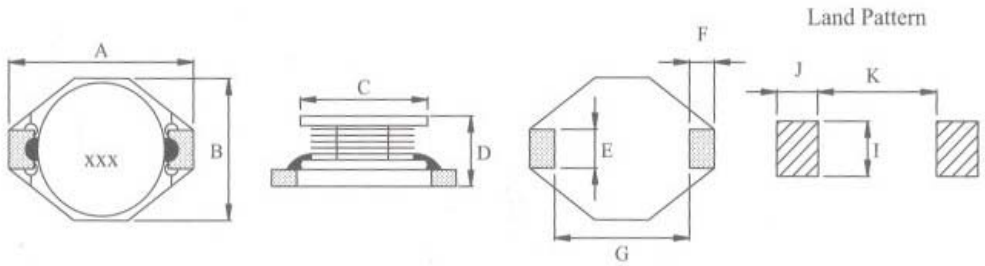
Notebook, Cellular Phone, DC/DC converter, PDA.

SHAPES & DIMENSIONS

SGN1606F/SGN1608F



SGN3308/SGN3316/SGN3340/SGN5022



Type	A (Max)	B (Max)	C ±0.3	D (Max)	E ±0.3	F ±0.3	G ±0.3	H ±0.3	I	J	K	L ±0.3	M ±0.3
SGN1606F	6.40	5.50	4.00	1.80	1.80	0.80	4.80	2.50	1.40	-	3.56	4.06	6.86
SGN1608F	6.60	4.45	4.00	2.92	1.27	1.02	4.32	2.50	1.40	-	3.26	4.06	6.86
SGN3308F	12.95	9.40	8.38	3.00	2.54	2.54	7.62	-	2.79	2.92	7.37	-	-
SGN3316F	12.95	9.40	8.38	5.21	2.54	2.54	7.62	-	2.79	2.92	7.37	-	-
SGN3340F	12.95	9.40	8.38	11.43	2.54	2.54	7.62	-	2.79	2.92	7.37	-	-
SGN5022F	18.54	15.24	12.70	7.11	2.54	2.54	12.70		2.79	2.92	12.45	-	-

※Design as Customer's Requested Specifications.

SMD UNSHIELDED POWER INDUCTORS

COMPONENT

ELECTRICAL CHARACTERISTICS

SGN 1606F / 1608F / 3308F / 3316F / 3340F / 5022F SERIES

Inductance		1606F			1608F			3308F		
Code	(uH)	Test Freq.(Hz)	RDC(Ω) Max.	IDC(A) Max.	Test Freq.(Hz)	RDC(Ω) Max.	IDC(A) Max.	Test Freq.(Hz)	RDC(Ω) Max.	IDC(A) Max.
1R0M	1.00	100K	0.05	2.50	100K	0.050	2.90	-	-	-
1R5M	1.50	100K	0.06	2.20	100K	0.050	2.60	-	-	-
2R2M	2.20	100K	0.07	1.80	100K	0.060	2.30	-	-	-
3R3M	3.30	100K	0.10	1.40	100K	0.070	2.00	-	-	-
4R7M	4.70	100K	0.12	1.20	100K	0.080	1.50	-	-	-
6R8M	6.80	100K	0.19	1.10	100K	0.110	1.20	-	-	-
100M	10.00	100K	0.30	1.00	100K	0.140	1.10	100K	0.110	2.40
150M	15.00	100K	0.40	0.80	100K	0.200	0.90	100K	0.150	2.00
220M	22.00	100K	0.54	0.60	100K	0.320	0.70	100K	0.230	1.60
330M	33.00	100K	0.74	0.50	100K	0.440	0.58	100K	0.300	1.40
470M	47.00	100K	1.10	0.45	100K	0.560	0.50	100K	0.390	1.00
680M	68.00	100K	1.60	0.35	100K	0.750	0.40	100K	0.660	0.90
101M	100.00	100K	2.30	0.30	100K	1.100	0.31	100K	0.840	0.70
151M	150.00	100K	3.20	0.25	100K	1.700	0.27	100K	1.200	0.60
221M	220.00	100K	5.70	0.20	100K	2.300	0.22	100K	1.900	0.50
331M	330.00	100K	8.20	0.16	100K	3.300	0.18	100K	2.700	0.40
471M	470.00	100K	10.80	0.14	100K	4.400	0.16	100K	4.000	0.30
681M	680.00	100K	17.20	0.12	100K	6.800	0.14	100K	5.300	0.20
102M	1000.00	100K	22.60	0.08	100K	12.00	0.10	100K	8.400	0.10

Inductance		3316F			3340F			5022F.		
Code	(uH)	Test Freq.(Hz)	RDC(Ω) Max.	IDC(A) Max.	Test Freq.(Hz)	RDC(Ω) Max.	IDC(A) Max.	Test Freq.(Hz)	RDC(Ω) Max.	IDC(A) Max.
1R0M	1.00	100K	0.009	9.00	-	-	-	100K	0.009	20.00
1R5M	1.50	100K	0.010	8.00	-	-	-	-	-	-
2R2M	2.20	100K	0.012	7.00	-	-	-	100K	0.014	16.00
3R3M	3.30	100K	0.015	6.40	-	-	-	100K	0.015	14.00
4R7M	4.70	100K	0.018	5.40	-	-	-	-	-	-
5R6M	5.60	-	-	-	-	-	-	100K	0.020	12.00
6R8M	6.80	100K	0.027	4.60	-	-	-	100K	-	-
100M	10.00	100K	0.038	3.80	100K	0.040	8.00	100K	0.031	10.00
150M	15.00	100K	0.046	3.00	100K	0.050	7.00	100K	0.036	8.00
220M	22.00	100K	0.085	2.60	100K	0.066	5.50	100K	0.047	7.00
330M	33.00	100K	0.100	2.00	100K	0.080	4.00	100K	0.066	5.50
470M	47.00	100K	0.140	1.60	100K	0.110	3.80	100K	0.086	4.50
680M	68.00	100K	0.200	1.40	100K	0.170	3.00	100K	0.130	3.50
101M	100.00	100K	0.280	1.20	100K	0.220	2.50	100K	0.190	3.00
151M	150.00	100K	0.400	1.00	100K	0.340	2.00	100K	0.250	2.60
221M	220.00	100K	0.610	0.80	100K	0.440	1.60	100K	0.380	2.40
331M	330.00	100K	1.020	0.60	100K	0.700	1.20	100K	0.560	1.90
471M	470.00	100K	1.270	0.50	100K	0.950	1.00	100K	0.850	1.40
681M	680.00	100K	2.020	0.40	100K	1.200	1.00	100K	1.100	1.20
102M	1000.00	100K	3.000	0.30	100K	2.000	0.80	100K	1.800	1.00

※ Test Frep.：100KHz/1V.

※ Operating Temp.：－40℃ ~ +85℃

※ Inductance drop = 10% typ. at IDC.