FEATURES

- High energy storage and very low resistance.
- Smallest size and high performance

APPLICATIONS

Notebook computer.
Battery power equipment.
DC/DC converter.
Digital camera&scanner.
CD-ROM/DVD&PDA.

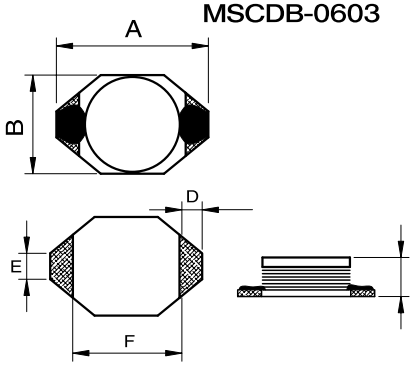
PRODUCT IDENTIFICATION

❶	❷	❸	❹
MSCDB	1305	100	M

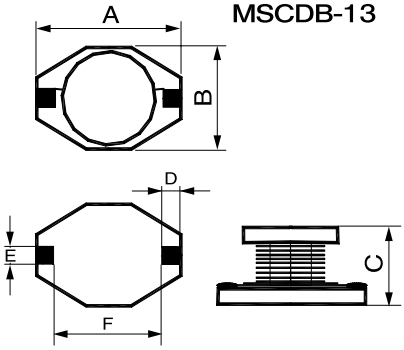
❶ Product Code
❷ Dimensions
❸ Inductance Code
❹ Tolerance Code

PRODUCT SERIES

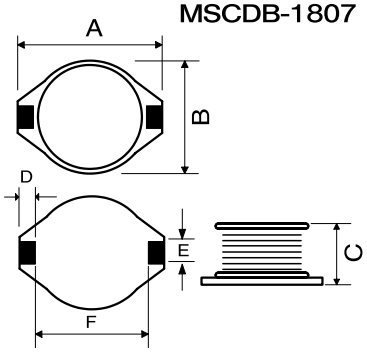
MSCDB-0603



MSCDB-13



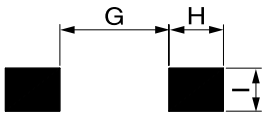
MSCDB-1807



Part No.	A	B	C	D	E	F
MSCDB-0603	6.60Max	4.45Max	2.92Max	0.76	1.27	4.32
MSCDB-1303	13.5Max	9.50Max	3.20Max	2.54	2.54	7.80
MSCDB-1305	13.5Max	9.50Max	5.50Max	2.54	2.54	7.80
MSCDB-1311	13.5Max	9.50Max	11.5Max	2.54	2.54	7.80
MSCDB-1807	18.5Max	15.5Max	7.50Max	2.54	2.54	13.5

Dimension in m/m

LAND PATTERNS



Part No.	G	H	I
MSCDB-0603	4.57	1.15	3.05
MSCDB-1303	7.37	3.0	2.80
MSCDB-1305	7.37	3.0	2.80
MSCDB-1311	7.37	3.0	2.80
MSCDB-1807	12.5	3.0	2.80

Dimension in m/m

PRODUCT SPECIFICATIONS

Part No.	Inductance (μH)	Test Frequency	DC Resistance(Ω)Max.					Permissible DC Current(A)Max.				
			0603	1303	1305	1311	1807	0603	1303	1305	1311	1807
1R0	1.0	100KHz	0.05		0.009		0.011	2.90		9.00		20.0
1R5	1.5		0.05		0.010			2.60		8.00		
2R2	2.2		0.07	0.03	0.012		0.014	2.30	3.80	7.00		16.0
3R3	3.3		0.08		0.015		0.016	2.00		6.40		14.0
4R7	4.7		0.09	0.06	0.200			1.50	2.70	5.40		
5R6	5.6				0.025		0.022			5.00		12.0
6R8	6.8		0.13		0.027			1.20		4.60		
100	10		0.16	0.09	0.038	0.033	0.032	1.10	2.40	3.80	8.00	10.0
150	15		0.23	0.12	0.050	0.042	0.036	0.90	2.00	3.00	7.00	8.00
220	22		0.37	0.19	0.085	0.054	0.047	0.70	1.60	2.60	5.50	7.00
330	33		0.51	0.25	0.100	0.080	0.066	0.58	1.40	2.00	4.00	5.50
470	47		0.64	0.32	0.140	0.100	0.087	0.50	1.00	1.60	3.80	4.50
680	68		0.86	0.55	0.200	0.170	0.130	0.40	0.90	1.40	3.00	3.50
101	100		1.27	0.70	0.280	0.220	0.190	0.31	0.70	1.20	2.50	3.00
151	150		2.00	1.00	0.400	0.340	0.250	0.27	0.60	1.00	2.00	2.60
221	220		3.11	1.60	0.610	0.440	0.380	0.22	0.50	0.70	1.60	2.40
331	330		3.80	2.20	1.020	0.700	0.560	0.18	0.40	0.60	1.20	1.90
471	470		5.06	3.30	1.400	0.950	0.850	0.16	0.30	0.50	1.00	1.40
681	680		9.20	4.40	2.020	1.200	1.200	0.14	0.20	0.40	1.00	1.20
102	1000		13.8	7.00	3.000	2.000	1.800	0.10	0.10	0.30	0.80	1.00

The rated current indicates the value of current when the inductance is 10% lower than its initial value at DC superposition or DC current when T=40˚C , whichever is lower.
Tolerance of inductance:1 μH~1000 μH