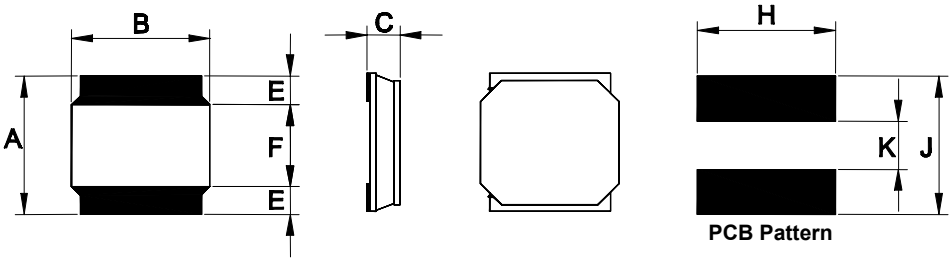
SMD Power Inductor－SDIA



■Dimensions

Unit: mm

Type	A	B	C max.	E	F	H	J	K
SDIA0312	3.0±0.2	3.0±0.2	1.25	0.9	2.0	3.7	3.7	1.2
SDIA0412	4.0±0.2	4.0±0.2	1.2	1.0	2.0	4.6	4.6	1.6
SDIA0612	6.0±0.2	6.0±0.2	1.2	0.9	4.2	6.7	6.7	3.5
SDIA0840	8.0±0.2	8.0±0.2	4.0	1.6±0.3	4.8±0.3	8.7	8.7	4.3

■Features

－Small and Low profile inductor
－It corresponds to high current
－Shield structure magnetically
－Strong structure against a shock-proof

■Inductance and rated current ranges

－SDIA0312　1.0～100μH　1.50～0.195A
－SDIA0412　1.0～820μH　1.95～0.05A
－SDIA0612　10～100μH　0.75～0.19A
－SDIA0840　2.2～100μH　7.33～1.00A
－Electrical specifications at 25°C

■Applications

－LCD Display etc.
－For Small DC to DC Converters
－PDA

■Characteristics

－Rated DC Current: The current when the inductance becomes 30% lower than its initial value.
－Operating temperature range: -40～85°C

■Product Identification

SDIA	0312	M	T	101
Product Type	Dimensions (AxC)	Inductor Tolerance	Packaging Style	Inductance
	0312: 3.0x1.25 0412: 4.0x1.2 0612: 6.0x1.2 0840: 8.0x4.0	M: ±20% N: ±30%	T: Tape and Reel	1R1: 1.1μH 470: 47μH 101: 100μH

■Electrical Characteristics

SDIA0312 / 0412 / 0612 / 0840 Type

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.				IDC (A) max.			
				0312	0412	0612	0840	0312	0412	0612	0840
1R0	1.0	N	100KHz, 0.25V	0.104	0.067	-	-	1.500	1.95	-	-
1R5	1.5	N	100KHz, 0.25V	0.183	0.085	-	-	1.360	1.49	-	-
1R8	1.8	N	100KHz, 0.25V	0.197	-	-	-	1.200	-	-	-
2R2	2.2	N	100KHz, 0.25V	0.200	0.140	-	0.017	1.100	1.40	-	7.33
3R3	3.3	M, N	100KHz, 0.25V	0.320	0.210	-	0.022	0.910	1.15	-	5.93
4R7	4.7	M, N	100KHz, 0.25V	0.380	0.290	-	0.023	0.770	0.91	-	4.70
6R8	6.8	M, N	100KHz, 0.25V	0.640	0.440	-	0.033	0.670	0.77	-	4.00
100	10	M, N	1KHz, 0.25V	0.950	0.620	0.288	0.044	0.540	0.66	0.75	3.40
120	12	M, N	1KHz, 0.25V	-	-	0.360	0.055	-	-	0.60	3.05
150	15	M, N	1KHz, 0.25V	1.068	0.930	0.396	0.065	0.440	0.54	0.58	2.70
220	22	M, N	1KHz, 0.25V	1.730	1.250	0.660	0.086	0.375	0.46	0.48	2.20
330	33	M, N	1KHz, 0.25V	2.570	1.840	0.952	0.130	0.310	0.36	0.39	1.90
470	47	M, N	1KHz, 0.25V	3.720	2.660	1.356	0.200	0.250	0.31	0.32	1.50
680	68	M, N	1KHz, 0.25V	4.470	3.700	1.620	0.300	0.240	0.24	0.22	1.20
101	100	M, N	1KHz, 0.25V	5.070	-	2.626	0.380	0.195	-	0.19	1.00
221	220	M, N	1KHz, 0.25V	-	12.35	-	-	-	0.16	-	-
821	820	M, N	1KHz, 0.25V	-	60.00	-	-	-	0.05	-	-