

Application Field

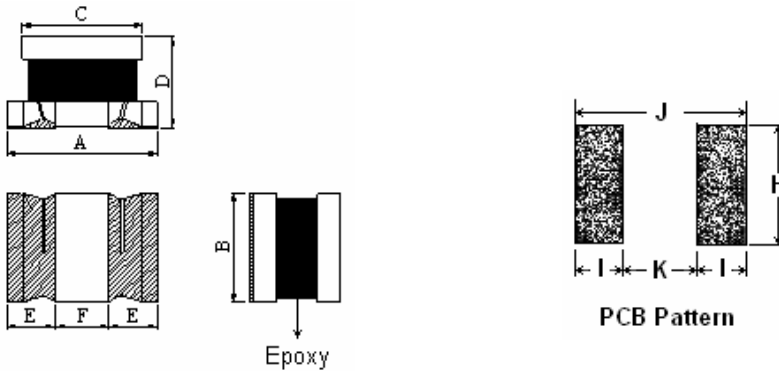
- Personal computers.
- Disk Drives and computer peripherals.
- DC Power supply circuit.
- For Small DC-DC converter (cellular phone, HDD,DVC,DSC,PDA,LCD disply etc)



Features

- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering methods can be employed.

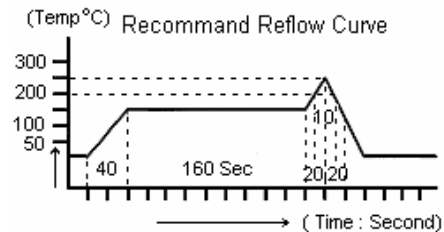
Dimensions and footprint (unit:mm)



Type	A	B	C	D	E	F	H	J	K
SDIA201514	2.0 ± 0.3	1.7 ± 0.3	1.5 ± 0.3	1.4 ± 0.4	1.0min	0.5min	2.1	2.7	0.8
SDIA201609	2.0 ± 0.3	1.6 ± 0.3	2.0 ± 0.3	0.9 ± 0.2	0.6ref	0.8ref	2.2	2.6	0.6
SDIA252018	2.5 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	1.8 ± 0.2	1.2min	0.6min	2.6	3.2	1.1
SDIA321618	3.2 ± 0.3	1.6 ± 0.2	2.3 ± 0.2	1.8 ± 0.4	0.9min	1.3min	2.1	3.9	1.0
SDIA322516	3.2 ± 0.3	2.5 ± 0.2	2.5 ± 0.2	1.6 ± 0.4	0.9min	1.3min	3.0	3.9	1.0
SDIA322520	3.2 ± 0.3	2.5 ± 0.2	2.5 ± 0.2	2.0 ± 0.4	0.9min	1.3min	3.0	3.9	1.0
SDIA3225C	3.2 ± 0.3	2.5 ± 0.2	2.5 ± 0.2	2.0 ± 0.4	0.9min	1.3min	3.0	3.9	1.0
SDIA453226	4.5 ± 0.3	3.2 ± 0.2	3.6 ± 0.2	2.6 ± 0.4	1.4ref	1.7ref	3.7	5.2	1.0
SDIA4532C	4.5 ± 0.3	3.2 ± 0.2	3.6 ± 0.2	2.6 ± 0.4	1.4ref	1.7ref	3.7	5.2	1.0
SDIA565016	5.7 ± 0.3	5.0 ± 0.2	5.0 ± 0.2	1.6 ± 0.3	1.7ref	2.0ref	5.6	6.4	1.5

General Specification:

1. Storage temp: -40°C ~ +125°C
2. Operating temp: -25°C ~ +105°C
3. Resistance to solder heat : 250°C 10secs





SDIA20154- Series , SDIA3225C-Series , SDIA322516- Series

Part No	Inductance	SDIA201514		SDIA3225C		SDIA322516	
		RDC(Ω)Max	IDC(A)Min	RDC(Ω)Max	IDC(A)Min	RDC(Ω)Max	IDC(A)Min
R10	0.1	0.02	4.24				
1R0	1.0	0.16	0.75	0.117	0.80	0.060	1.48
1R4	1.4					0.079	1.38
1R5	1.5	0.247	0.70				
1R8	1.8					0.101	1.31
2R0	2.0	0.30	0.65				
2R2	2.2	0.33	0.61	0.169	0.60	0.125	1.25
2R7	2.7	0.36	0.55	0.171	0.55		
3R3	3.3	0.50	0.50			0.16	1.08
3R9	3.9	0.70	0.49				
4R7	4.7	0.74	0.47	0.26	0.45	0.236	0.98
5R6	5.6					0.287	0.90
6R8	6.8	0.97	0.45	0.30	0.43	0.371	0.79
8R2	8.2	1.49	0.40	0.392	0.40	0.471	0.72
100	10	1.62	0.37	0.572	0.30	0.576	0.66
120	12	1.89	0.34	0.65	0.29	0.684	0.59
150	15	2.17	0.32	0.70	0.285	0.888	0.54
180	18					1.087	0.48
220	22	3.42	0.25	0.923	0.25	1.343	0.43
270	27	4.28	0.21	1.000	0.24		
330	33	5.47	0.20	1.352	0.23	2.245	0.35
390	39	6.29	0.17				
470	47	9.87	0.13	1.69	0.17	3.064	0.29
560	56			2.0	0.16	4.12	0.27
680	68	12.17	0.11	2.67	0.15	5.289	0.24
820	82	14.50	0.09			7.223	0.20
101	100	19.62	0.08	4.55	1.00	8.209	0.19
121	120	22.03	0.23	4.95	0.097	10.888	0.17
151	150			6.15	0.095	12.568	0.16
181	180			6.27	0.09	19.645	0.14
221	220			10.9	0.07	22.307	0.13
271	270					24.613	0.12
331	330			13.0	0.06	28.212	0.11
391	390			22.1	0.06	32.187	0.10
471	470			24.7	0.06	48.747	0.09
561	560			28.6	0.06	53.893	0.08
681	680					63.012	0.07

SDIAxxxx-xxxK-E Code "-E" : Lead free process and RoHs compliant

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC : $\Delta L / L (0A) \leq 10\%$

Frequency : 1.0μH ~ 8.2μH @ 100KHz / 0.25V, 10μH ~ 680μH/ 1KHz / 0.25V



SDIA 201609 Series

Part No	L(μH)	RDC(Ω)Max	IDC (A)Min	Frequency
SDIA 201609-R10	0.10	0.30	2.300	100KHz
SDIA 201609-R68	0.68	0.35	0.700	100KHz
SDIA 201609-R82	0.82	0.37	0.600	100KHz
SDIA 201609-1R0	1.0	0.39	0.485	100KHz
SDIA 201609-1R5	1.5	0.52	0.445	100KHz
SDIA 201609-2R2	2.2	0.624	0.425	100KHz
SDIA 201609-2R7	2.7	0.68	0.410	100KHz
SDIA 201609-3R3	3.3	0.78	0.375	100KHz
SDIA 201609-4R7	4.7	1.04	0.300	100KHz
SDIA 201609-5R6	5.6	1.17	0.280	100KHz
SDIA 201609-6R8	6.8	1.30	0.255	100KHz
SDIA 201609-8R2	8.2	1.56	0.235	100KHz
SDIA 201609-100	10	1.93	0.255	1KHz
SDIA 201609-120	12	2.37	0.210	1KHz
SDIA 201609-150	15	3.20	0.200	1KHz
SDIA 201609-180	18	3.60	0.190	1KHz
SDIA 201609-220	22	3.91	0.185	1KHz
SDIA 201609-270	27	6.34	0.180	1KHz
SDIA 201609-330	33	7.09	0.160	1KHz
SDIA 201609-390	39	7.99	0.125	1KHz
SDIA 201609-470	47	11.89	0.120	1KHz
SDIA 201609-560	56	13.29	0.110	1KHz
SDIA 201609-680	68	15.16	0.100	1KHz
SDIA 201609-820	82	17.52	0.090	1KHz
SDIA 201609-101	100	19.42	0.070	1KHz
SDIA 201609-121	120	21.31	0.050	1KHz

SDIA 201609-xxxK-E , Code "-E" : Lead free process and RoHs compliant

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC : $\Delta L / L (0A) \leq 10\%$