

Application Field

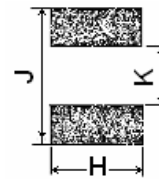
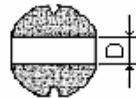
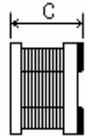
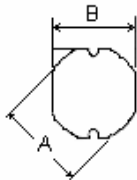
- VTR.OA equipment. LCD television set
- Note book
- Portable communication equipment
- DC / DC converters



Features

- Open Magnetic circuit construction
- Compact and thin,
- Put the electrode with ferrite core directly a small surface area allow a high mounting density

Dimensions and footprint (unit:mm)

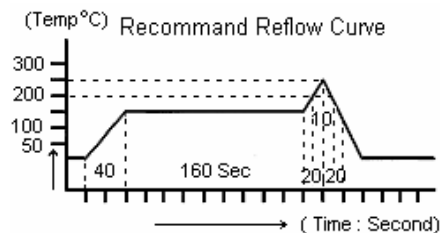


PCB Pattern

TYPE	A	B	C	D(typ)	H(typ)	J(typ)	K(typ)
SD3512	3.5±0.3	3.0±0.3	1.4Max	1.2	3.5	4.0	0.8
SD3516	3.5±0.3	3.0±0.3	1.6±0.3	1.2	3.5	4.0	0.8
SD3521	3.5±0.3	3.0±0.3	2.0±0.3	1.2	3.5	4.0	0.8
SD0402	4.5±0.3	4.0±0.3	2.6±0.3	1.2	4.5	5.0	1.5
SD0403	4.5±0.3	4.0±0.3	3.2±0.3	1.2	4.5	5.0	1.5
SD05018	5.8±0.3	5.2±0.3	2.2±0.3	1.3	5.5	6.0	1.7
SD0502	5.8±0.3	5.2±0.3	2.5±0.3	2.0	5.5	6.0	1.7
SD0503	5.8±0.3	5.2±0.3	3.0±0.3	1.3	5.5	6.0	1.7
SD0504	5.8±0.3	5.2±0.3	4.5±0.4	1.3	5.5	6.0	1.7
SD07025	7.8±0.3	7.0±0.3	2.5 max	2.1	7.5	8.0	2.0
SD0703	7.8±0.3	7.0±0.3	3.5±0.5	2.1	7.5	8.0	2.0
SD0705	7.8±0.3	7.0±0.3	5.0±0.5	2.6	7.5	8.0	2.0
SD1004	10.0±0.4	9.0±0.3	4.0±0.3	2.1	9.5	10	2.0
SD1005	10.0±0.4	9.0±0.3	5.4±0.4	2.1	9.5	10	2.0
SD1006	10.0±0.4	9.0±0.3	7.5Max	2.1	9.5	10	2.0
SD1008	10.0±0.4	9.0±0.3	8.5Max	3.0	9.5	10	2.0

General Specification:

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





SD1004, SD1005, SD1006, SD1008-Series

Part No.	L(μH)	1004		1005		1006		1008	
		RDC(Ω)max	IDC(A)min	RDC(Ω)max	IDC(A)min	RDC(Ω)max	IDC(A)min	RDC(Ω)max	IDC(A)min
1R0	1.0	0.012	8.70			0.008	9.50	0.007	14.00
1R2	1.2	0.014	8.00	0.009	8.63				
1R4	1.4	0.016	7.48					0.008	13.50
1R5	1.5	0.016	7.48	0.010	8.00				
1R6	1.6			0.013	8.00				
1R8	1.8	0.018	6.80			0.011	8.60	0.009	13.00
2R2	2.2	0.020	5.40	0.014	6.80	0.012	7.20	0.011	12.80
2R7	2.7	0.024	3.20					0.012	11.4
3R3	3.3	0.028	2.85	0.018	3.05	0.016	6.80	0.013	11.00
3R9	3.9	0.030	2.80			0.017	6.35	0.014	10.20
4R7	4.7	0.038	2.75	0.02	2.90	0.019	5.45	0.015	9.15
5R6	5.6	0.040	2.70			0.024	4.30	0.019	8.37
6R8	6.8	0.042	2.65	0.04	2.75	0.035	3.52	0.020	7.58
8R2	8.2	0.048	2.60	0.05	2.70	0.045	3.51	0.023	6.55
100	10	0.050	2.38	0.06	2.60	0.06	3.50	0.030	5.99
120	12	0.06	2.13	0.07	2.45	0.07	3.40	0.033	5.40
150	15	0.07	1.87	0.08	2.27	0.08	3.10	0.037	4.95
180	18	0.08	1.73	0.09	2.15	0.09	3.00	0.053	4.35
220	22	0.09	1.60	0.10	1.95	0.10	2.60	0.061	3.99
270	27	0.10	1.44	0.11	1.76	0.11	2.40	0.064	3.70
330	33	0.12	1.26	0.12	1.50	0.12	2.30	0.087	3.29
390	39	0.15	1.20	0.14	1.37	0.14	2.10	0.10	3.01
470	47	0.17	1.10	0.17	1.28	0.17	1.95	0.11	2.78
560	56	0.20	1.01	0.19	1.17	0.19	1.85	0.12	2.57
680	68	0.22	0.91	0.22	1.11	0.22	1.65	0.16	2.28
750	75			0.24	1.05	0.24	1.55		
820	82	0.252	0.85	0.25	1.00	0.25	1.50	0.17	2.10
101	100	0.34	0.74	0.35	0.97	0.35	1.40	0.23	1.93
111	110			0.38	0.91				
121	120	0.396	0.69	0.40	0.89	0.40	1.30	0.27	1.75
151	150	0.54	0.61	0.47	0.78	0.47	1.20	0.31	1.58
181	180	0.62	0.56	0.63	0.72	0.63	1.00	0.36	1.44
201	200							0.39	1.38
221	220	0.72	0.53	0.73	0.66	0.73	0.95	0.46	1.30
271	270	0.95	0.45	0.97	0.57	0.97	0.90	0.53	1.17
331	330	1.10	0.42	1.15	0.52	1.15	0.80	0.65	1.06
391	390	1.24	0.38	1.30	0.48	1.30	0.75	0.81	0.96
471	470	1.53	0.35	1.48	0.42	1.48	0.65	1.01	0.88
531	530					1.70	0.62		
561	560	1.90	0.32	1.90	0.33	1.90	0.60	1.19	0.81
681	680			2.25	0.28	2.25	0.50	1.43	0.74
821	820			2.55	0.24	2.55	0.48	1.72	0.66
102	1000			3.49	0.20	3.00	0.46	2.08	0.6
122	1200					3.50	0.35	2.49	0.55
152	1500							3.12	0.49
182	1800							3.83	0.45
202	2000							4.32	0.41
222	2200							4.60	0.40
252	2500							5.45	0.38
272	2700							5.67	0.36
302	3000							6.54	0.35
332	3300							6.91	0.33
392	3900							8.60	0.3
472	4700							9.73	0.28
562	5600							12.16	0.25
682	6800							15.17	0.23
802	8000			22.00	0.11				
822	8200							16.86	0.21
103	10000			31.00	0.15			21.34	0.19
123	12000								
153	15000					41.00	0.12		
183	18000			40.00	0.10				

SDxxxx-xxxK-E, Code "-E" : RoHs compliant

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC : Δ L / L (0A) ≤ 10%

Inductance tested : 1.0μH - 8.2μH / 100KHZ / 0.25V 10μH -18000μH / 1KHZ / 0.25V