

**Application Field**

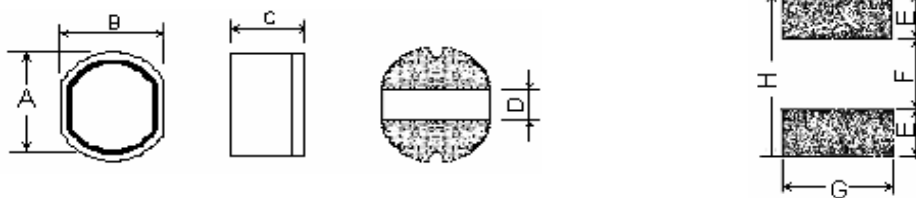
- VTR.OA equipment. LCD television set
- Note book
- Portable communication equipment
- DC / DC converters



**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)**

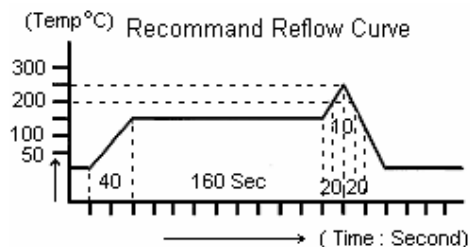


**PCB Pattern**

TYPE	A	B	C	D(typ)	F(typ)	G(typ)	H(typ)
SDS0603	6.2±0.3	5.6±0.3	3.2±0.3	2.0	1.7	6.2	6.8
SDS0705	7.8±0.3	7.0±0.3	4.5±0.5	2.1	1.7	7.6	8.4
SDS1005	10.0±0.4	9.0±0.3	5.0±0.5	2.1	1.7	9.7	10.7
SDS1205	12.6±0.5	11.6±0.5	5.4±0.5	3.0	3.0	12.0	15.0

**General Specification:**

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





**SDS0603 , SDS0705 , SDS1005 , SDS1205 -Series**

Part No.	L(μH)	0603		0705		1005		1205	
		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	0.02	2.50						
2R2	2.2	0.04	2.25						
3R3	3.3	0.05	2.00						
4R7	4.7	0.05	1.75	0.03	2.50	0.013	2.5		
5R6	5.6	0.07	1.50						
6R8	6.8	0.07	1.25						
100	10	0.14	1.00	0.07	1.65	0.06	2.06	0.05	2.65
120	12	0.16	0.94	0.07	1.57	0.07	1.94	0.05	2.50
150	15	0.18	0.86	0.08	1.39	0.07	1.72	0.06	2.45
180	18	0.25	0.78	0.10	1.29	0.08	1.58	0.06	2.40
210	21					0.08	1.44		
220	22	0.32	0.76	0.13	1.12	0.08	1.42	0.07	2.20
270	27	0.36	0.64	0.16	1.06	0.10	1.32	0.08	2.00
330	33	0.41	0.61	0.18	0.97	0.11	1.16	0.10	1.80
390	39	0.47	0.53	0.18	0.91	0.12	1.1	0.11	1.65
470	47	0.51	0.50	0.27	0.80	0.14	1.0	0.12	1.50
560	56	0.72	0.46	0.29	0.76	0.19	0.93	0.15	1.38
680	68	0.82	0.42	0.33	0.68	0.21	0.85	0.17	1.26
700	70			0.36	0.65				
820	82			0.43	0.62	0.28	0.79	0.20	1.14
101	100			0.49	0.55	0.34	0.72	0.25	1.05
121	120			0.68	0.49	0.37	0.63	0.28	0.95
151	150			0.94	0.44	0.51	0.55	0.40	0.85
181	180			1.00	0.40	0.57	0.50	0.48	0.77
221	220			1.18	0.36	0.78	0.47	0.52	0.70
271	270			1.30	0.33	0.87	0.41	0.70	0.63
331	330			1.35	0.26	1.20	0.37	0.80	0.57
391	390			1.44	0.24	1.34	0.35	1.08	0.52
471	470			1.65	0.22	1.50	0.33	1.20	0.48
561	560	3.64	0.14	2.34	0.20			1.340	0.44
681	680			2.60	0.18			1.780	0.40
821	820			3.00	0.16			2.000	0.36
102	1000			3.52	0.15				
122	1200			4.63	0.13				
152	1500			5.77	0.12				
182	1800			6.89	0.10				
222	2200			7.98	0.098				
272	2700			10.50	0.095				
332	3300			12.70	0.085				
392	3900			16.50	0.075				
472	4700			19.20	0.072				
562	5600			25.60	0.069				
682	6800			32.80	0.063				
822	8200			38.20	0.056				
902	9000			43.20	0.052				
103	10000			50.30	0.050				
123	12000			61.70	0.046				
153	15000			96.70	0.041				
183	18000			100.02	0.038				

**SDSxxxx-xxxK-E , Code "-E" : RoHs compliant**

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC :  $\Delta L / L (0A) \leq 10\%$   
 Inductance tested : 1μH - 6.8μH / 100KHZ / 0.25V 10μH - 18000μH / 1KHZ / 0.25V

