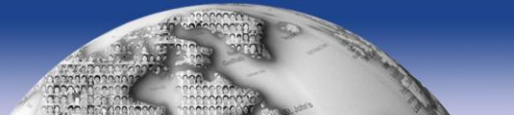


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SMTCD SERIES

UNSHIELDED SMT POWER INDUCTORS

Applications :

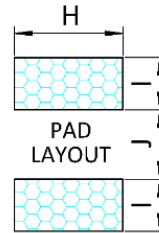
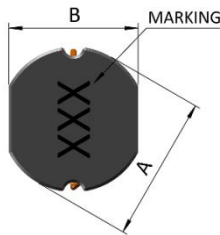
- . Power supply for VTRs. LCD televisions.
- . Notebook PCs, Portable communication equipment
- . DC/DC converters ,etc

Features :

- . Silver Plated Type, Low cost designed
- . Available on tape and reel for auto surface mounting.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	Item	H	I	J
SMTCD32	3.5±0.3	3.0±0.3	2.1±0.3	SMTCD32	3.5	1.6	0.8
SMTCD43	4.5±0.3	4.0±0.3	3.2±0.3	SMTCD43	4.5	1.75	1.5
SMTCD53	5.8±0.3	5.2±0.3	3.0±0.3	SMTCD53	5.5	2.15	1.7
SMTCD54	5.8±0.3	5.2±0.3	4.5±0.3	SMTCD54	5.5	2.15	1.7
SMTCD73	7.8±0.3	7.0±0.3	3.5±0.3	SMTCD73	7.5	3.0	2.0
SMTCD75	7.8±0.3	7.0±0.3	5.0±0.3	SMTCD75	7.5	3.0	2.0

Characteristics :

- . Saturation Current(Isat):The current when the inductance becomes 10% lower than its initial value.(Ta=20°C).
- . Temperature Rise Current(Irms):The current when the temperature of coil increases up to max. Δ T=40°C.(Ta=20°C)
- . Operating temperature : -40°C to 125°C.

Product Identification :

SMT CD105 - 331 K

(1) (2) (3) (4)

(1)Type : **Surface Mountable Type** .

(2)Style : **DR Core : OD=10mm, HT=5.4mm.**

(3)Inductance : **331 for 330 uH.**

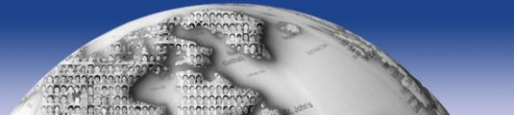
(4)Inductance tolerance : "**M**": ±20%; "**L**": ±15%; "**K**": ±10%

Test equipments :

L: Agilent 4284A Precision LCR meter.

L Load: Agilent 4284A with HP42841A current source.

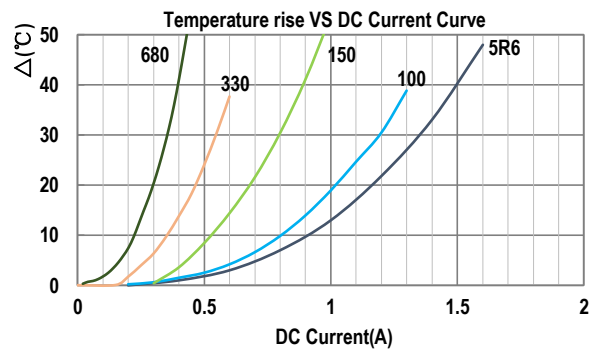
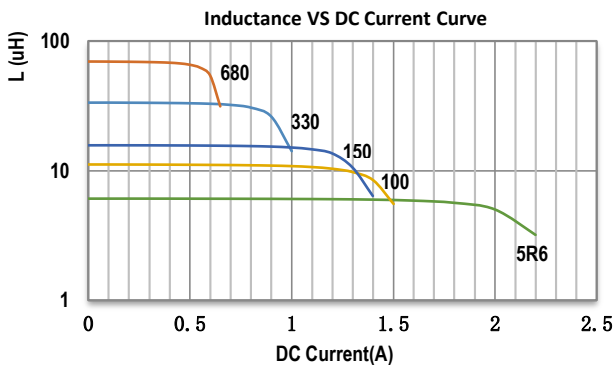
DCR: Milli-ohm meter.

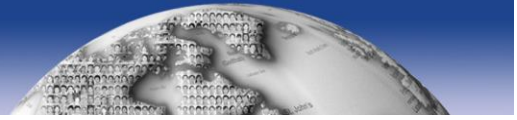


● **SMTCD32 series**

Part No.	Inductance L(uH)	Tolerance (±%)	Test Freq. (0.25V)	DCR(Ω) Max.	I sat(A) Max.	I rms(A) Max.
SMTCD32-1R0N	1.0	30	100KHz	40m	3.34	3.34
SMTCD32-1R2N	1.2	30	100KHz	50 m	2.60	2.60
SMTCD32-1R5N	1.5	30	100KHz	60 m	2.40	2.40
SMTCD32-1R8N	1.8	30	100KHz	70 m	2.35	2.34
SMTCD32-2R2N	2.2	30	100KHz	75 m	2.35	2.35
SMTCD32-2R7N	2.7	20	100KHz	100 m	1.90	1.90
SMTCD32-3R3M	3.3	20	100KHz	110 m	1.80	1.80
SMTCD32-4R7M	4.7	20	100KHz	135 m	1.30	1.40
SMTCD32-5R6M	5.6	20	100KHz	200 m	1.20	1.20
SMTCD32-6R8M	6.8	20	100KHz	210 m	1.15	1.15
SMTCD32-100K	10	10	100KHz	320 m	1.10	1.10
SMTCD32-120K	12	10	100KHz	360 m	0.85	0.85
SMTCD32-150K	15	10	100KHz	460 m	0.80	0.80
SMTCD32-220K	22	10	100KHz	650 m	0.65	0.70
SMTCD32-270K	27	10	100KHz	780 m	0.50	0.50
SMTCD32-330K	33	10	100KHz	800 m	0.50	0.50
SMTCD32-430K	43	10	100KHz	1.59	0.45	0.45
SMTCD32-470K	47	10	100KHz	1.60	0.45	0.45
SMTCD32-560K	56	10	100KHz	1.65	0.30	0.30
SMTCD32-680K	68	10	100KHz	1.80	0.29	0.29
SMTCD32-101K	100	10	100KHz	2.85	0.25	0.25
SMTCD32-151K	150	10	100KHz	4.20	0.16	0.16
SMTCD32-221K	220	10	100KHz	6.00	0.20	0.20
SMTCD32-301K	300	10	100KHz	7.00	0.10	0.10
SMTCD32-331K	330	10	100KHz	9.50	0.09	0.095
SMTCD32-471K	470	10	100KHz	11.48	0.15	0.15
SMTCD32-681K	680	10	100KHz	20.50	0.04	0.04

Typical Performance curves:

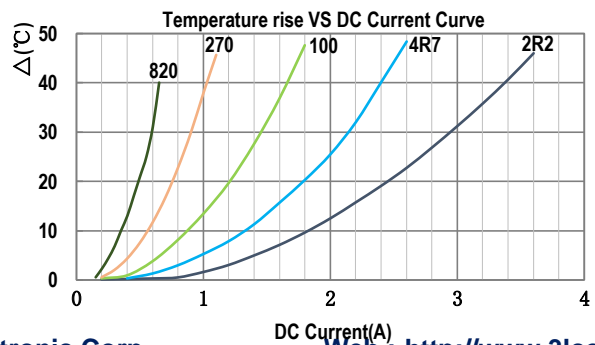
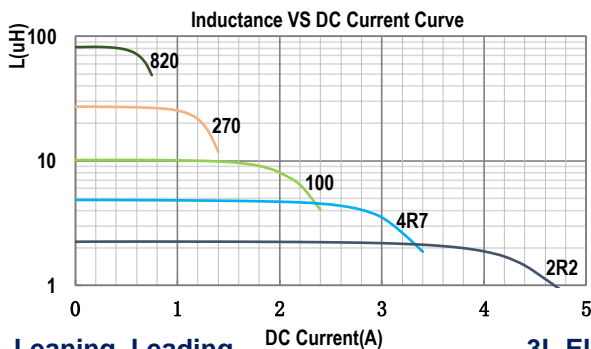


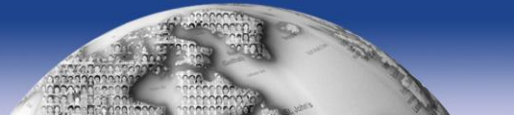


● **SMTCD43 series**

Part No.	Inductance L(uH)	Tolerance (±%)	Test Freq. (0.25V)	DCR(Ω) Max.	I sat(A) Max	I rms(A) Max.
SMTCD43-1R0N	1.0	30	100KHz	30 m	3.80	3.80
SMTCD43-1R2N	1.2	30	100KHz	36 m	3.50	3.50
SMTCD43-1R4N	1.4	30	100KHz	38 m	3.30	3.30
SMTCD43-1R5M	1.5	20	100KHz	38 m	3.00	3.00
SMTCD43-1R8M	1.8	20	100KHz	42 m	2.91	2.95
SMTCD43-2R2M	2.2	20	100KHz	48 m	3.00	1.75
SMTCD43-2R7M	2.7	20	100KHz	52 m	2.50	2.50
SMTCD43-3R0M	3.0	20	100KHz	55 m	2.50	2.45
SMTCD43-3R3M	3.3	20	100KHz	55 m	2.60	1.44
SMTCD43-3R9M	3.9	20	100KHz	76 m	1.98	1.98
SMTCD43-4R7M	4.7	20	100KHz	94 m	1.90	1.70
SMTCD43-5R6M	5.6	20	100KHz	100 m	1.80	1.80
SMTCD43-6R8M	6.8	20	100KHz	120 m	1.60	1.18
SMTCD43-8R2M	8.2	20	100KHz	132 m	1.26	1.26
SMTCD43-100K	10	10	100KHz	180 m	1.15	1.04
SMTCD43-120K	12	10	100KHz	210 m	1.05	1.05
SMTCD43-150K	15	10	100KHz	240 m	0.92	0.92
SMTCD43-180K	18	10	100KHz	338 m	0.84	0.84
SMTCD43-220K	22	10	100KHz	378 m	0.76	0.76
SMTCD43-270K	27	10	100KHz	410 m	0.71	0.71
SMTCD43-330K	33	10	100KHz	510 m	0.70	0.70
SMTCD43-390K	39	10	100KHz	560 m	0.66	0.66
SMTCD43-470K	47	10	100KHz	800 m	0.65	0.65
SMTCD43-560K	56	10	100KHz	960m	0.50	0.50
SMTCD43-680K	68	10	100KHz	1.117	0.46	0.46
SMTCD43-820K	82	10	100KHz	1.345	0.45	0.45
SMTCD43-101K	100	10	100KHz	1.52	0.44	0.44
SMTCD43-151K	150	10	100KHz	2.00	0.42	0.42
SMTCD43-221K	220	10	100KHz	3.40	0.36	0.30
SMTCD43-331K	330	10	100KHz	5.30	0.28	0.24
SMTCD43-471K	470	10	100KHz	6.80	0.20	0.20
SMTCD43-681K	680	10	100KHz	10.0	0.18	0.18
SMTCD43-102K	1000	10	100KHz	15.6	0.14	0.14

Typical Performance curves:

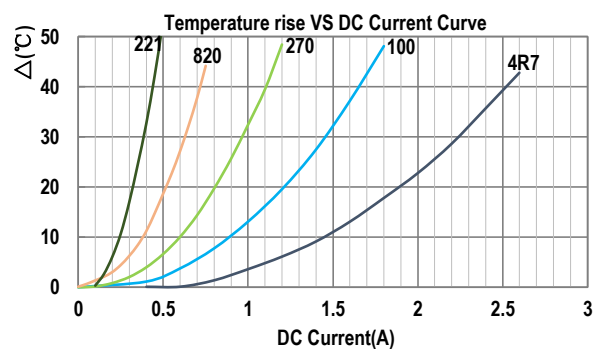
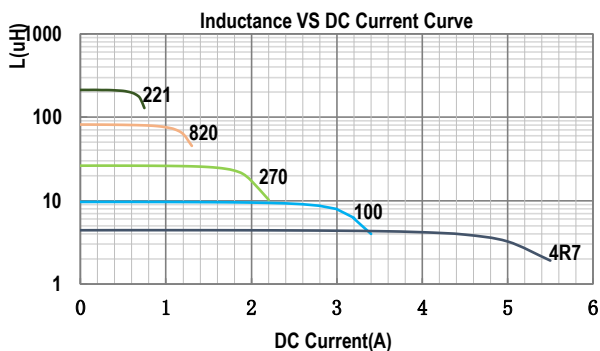


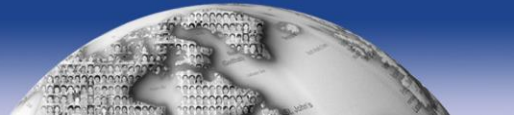


● **SMTCD53 series**

Part No.	Inductance L(uH)	Tolerance (±%)	Test Freq. (0.25V)	DCR(mΩ) Max.	I sat(A) Max.	I rms(A) Max.
SMTCD53-1R0M	1.0	20	100KHz	30	4.50	4.50
SMTCD53-1R2M	1.2	20	100KHz	25	4.60	4.20
SMTCD53-1R5M	1.5	20	100KHz	30	4.10	4.10
SMTCD53-2R2M	2.2	20	100KHz	35	3.50	3.50
SMTCD53-2R7M	2.7	20	100KHz	40	3.20	3.20
SMTCD53-3R3M	3.3	20	100KHz	50	3.00	2.80
SMTCD53-3R9M	3.9	20	100KHz	60	2.60	2.60
SMTCD53-4R7M	4.7	20	100KHz	70	2.50	2.50
SMTCD53-5R6M	5.6	20	100KHz	80	2.40	2.40
SMTCD53-6R8M	6.8	20	100KHz	90	2.20	2.20
SMTCD53-8R2M	8.2	20	100KHz	100	2.00	2.00
SMTCD53-100K	10	10	100KHz	120	1.80	1.80
SMTCD53-150K	15	10	100KHz	150	1.70	1.70
SMTCD53-180K	18	10	100KHz	215	1.60	1.60
SMTCD53-220K	22	10	100KHz	220	1.50	1.50
SMTCD53-270K	27	10	100KHz	260	1.20	1.40
SMTCD53-330K	33	10	100KHz	330	1.10	1.10
SMTCD53-390K	39	10	100KHz	400	1.00	1.00
SMTCD53-470K	47	10	100KHz	430	0.90	0.90
SMTCD53-680K	68	10	100KHz	600	0.75	0.80
SMTCD53-820K	82	10	100KHz	820	0.65	0.65
SMTCD53-101K	100	10	100KHz	900	0.60	0.60
SMTCD53-121K	120	10	100KHz	1000	0.58	0.58
SMTCD53-151K	150	10	100KHz	1560	0.53	0.53
SMTCD53-221K	220	10	100KHz	2000	0.38	0.38
SMTCD53-331K	330	10	100KHz	4000	0.35	0.28
SMTCD53-391K	390	10	100KHz	4100	0.32	0.26
SMTCD53-451K	450	10	100KHz	4200	0.30	0.25
SMTCD53-471K	470	10	100KHz	4300	0.20	0.20
SMTCD53-681K	680	10	100KHz	7000	0.18	0.18
SMTCD53-102K	1000	10	100KHz	8000	0.13	0.13

Typical Performance curves:

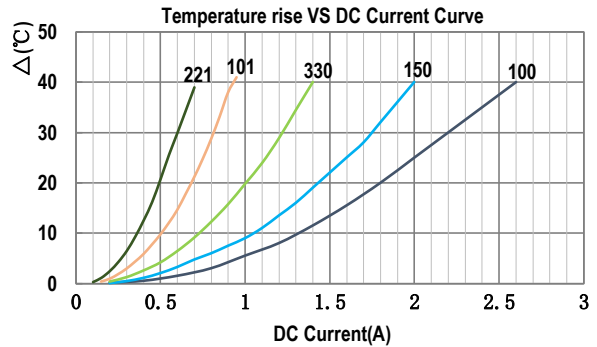
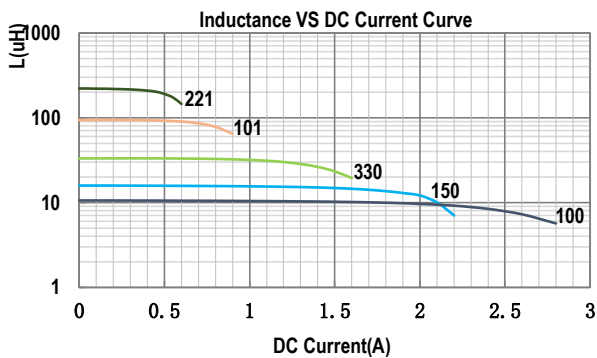


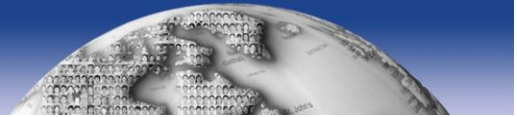


● **SMTCD54 series**

Part No.	Inductance L(μ H)	Tolerance ($\pm\%$)	Test Freq. (0.25V)	DCR(m Ω) Max.	I sat(A) Max.	I rms(A) Max.
SMTCD54-1R0M	1.0	20	100KHz	15	5.90	5.90
SMTCD54-1R2M	1.2	20	100KHz	16	5.30	5.30
SMTCD54-1R5M	1.5	20	100KHz	20	5.30	5.30
SMTCD54-2R2M	2.2	20	100KHz	26	4.60	4.60
SMTCD54-2R7M	2.7	20	100KHz	28	4.40	4.40
SMTCD54-3R3M	3.3	20	100KHz	34	4.30	4.30
SMTCD54-3R9M	3.9	20	100KHz	37	4.10	3.90
SMTCD54-4R7M	4.7	20	100KHz	40	3.50	3.50
SMTCD54-6R8M	6.8	20	100KHz	60	3.00	2.80
SMTCD54-100K	10	10	100KHz	75	2.00	2.00
SMTCD54-120K	12	10	100KHz	100	1.60	1.70
SMTCD54-150K	15	10	100KHz	120	1.55	1.60
SMTCD54-180K	18	10	100KHz	150	1.55	1.55
SMTCD54-220K	22	10	100KHz	170	1.50	1.50
SMTCD54-330K	33	10	100KHz	230	0.88	0.92
SMTCD54-470K	47	10	100KHz	350	0.85	0.85
SMTCD54-680K	68	10	100KHz	460	0.61	0.65
SMTCD54-820K	82	10	100KHz	600	0.58	0.57
SMTCD54-101K	100	10	100KHz	700	0.55	0.56
SMTCD54-121K	120	10	100KHz	770	0.55	0.55
SMTCD54-151K	150	10	100KHz	1200	0.52	0.52
SMTCD54-221K	220	10	100KHz	1650	0.50	0.50
SMTCD54-331K	330	10	100KHz	1800	0.28	0.28
SMTCD54-471K	470	10	100KHz	3000	0.25	0.25
SMTCD54-681K	680	10	100KHz	5100	0.25	0.25
SMTCD54-821K	820	10	100KHz	5300	0.22	0.22
SMTCD54-102K	1000	10	100KHz	7000	0.10	0.10

Typical Performance curves:

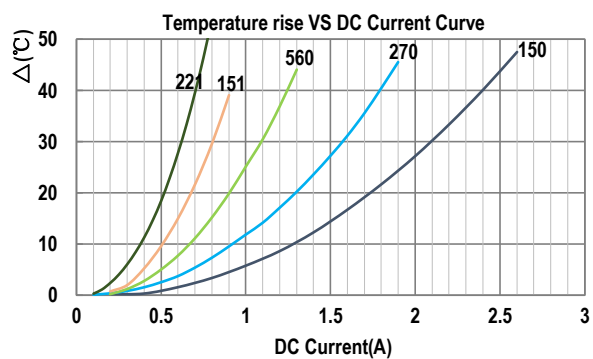
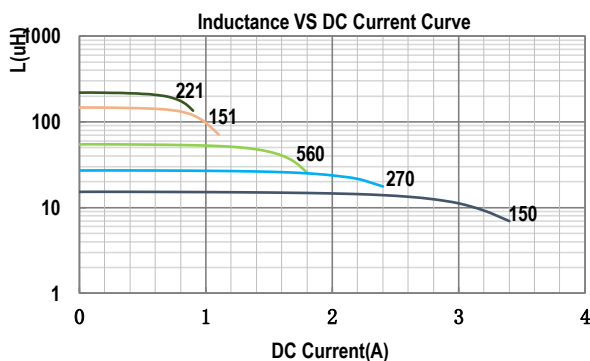


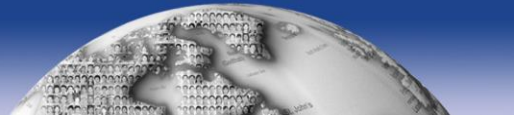


● **SMTCD73 series**

Part No.	Inductance L(uH)	Tolerance (±%)	Test Freq. (0.25V)	DCR(mΩ) Max.	I sat(A) Max.	I rms(A) Max.
SMTCD73-1R0M	1.0	20	100KHz	15	6.00	6.00
SMTCD73-1R5M	1.5	20	100KHz	15	5.10	5.10
SMTCD73-2R2M	2.2	20	100KHz	18	4.00	4.00
SMTCD73-3R3M	3.3	20	100KHz	28	3.80	3.80
SMTCD73-4R7M	4.7	20	100KHz	35	3.50	3.50
SMTCD73-6R8M	6.8	20	100KHz	70	1.60	1.60
SMTCD73-100K	10	10	100KHz	80	1.44	1.44
SMTCD73-120K	12	10	100KHz	90	1.39	1.39
SMTCD73-150K	15	10	100KHz	104	1.24	1.24
SMTCD73-180K	18	10	100KHz	111	1.12	1.12
SMTCD73-220K	22	10	100KHz	129	1.07	1.07
SMTCD73-270K	27	10	100KHz	150	0.94	0.94
SMTCD73-330K	33	10	100KHz	170	0.85	0.85
SMTCD73-390K	39	10	100KHz	217	0.74	0.74
SMTCD73-470K	47	10	100KHz	250	0.68	0.68
SMTCD73-560K	56	10	100KHz	353	0.64	0.64
SMTCD73-680K	68	10	100KHz	370	0.59	0.59
SMTCD73-820K	82	10	100KHz	406	0.54	0.54
SMTCD73-101K	100	10	100KHz	480	0.51	0.51
SMTCD73-121K	120	10	100KHz	536	0.49	0.49
SMTCD73-151K	150	10	100KHz	760	0.40	0.40
SMTCD73-181K	180	10	100KHz	1022	0.36	0.36
SMTCD73-221K	220	10	100KHz	1200	0.31	0.31
SMTCD73-331K	330	10	100KHz	1500	0.29	0.29
SMTCD73-471K	470	10	100KHz	2500	0.28	0.28
SMTCD73-681K	680	10	100KHz	3200	0.20	0.20
SMTCD73-821K	820	10	100KHz	3900	0.13	0.13
SMTCD73-102K	1000	10	100KHz	4760	0.11	0.11

Typical Performance curves:

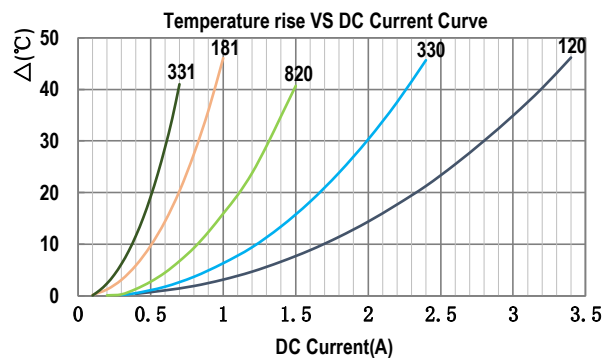
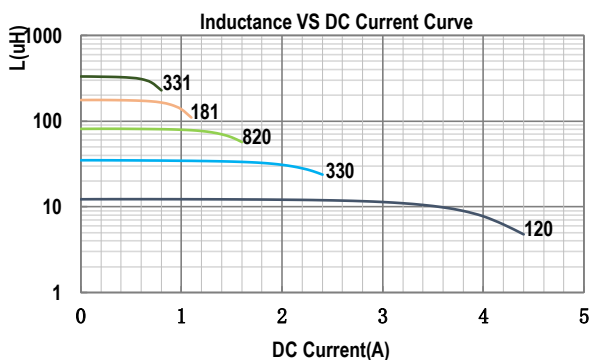




● **SMTCD75 series**

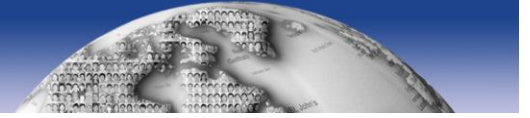
Part No.	Inductance L(μ H)	Tolerance (\pm %)	Test Freq. (0.25V)	DCR(m Ω) Max.	I sat(A) Max.	I rms(A) Max.
SMTCD75-1R0M	1.0	20	100KHz	10	8.50	8.50
SMTCD75-1R5M	1.5	20	100KHz	18	5.20	5.20
SMTCD75-2R2M	2.2	20	100KHz	20	5.00	5.00
SMTCD75-3R3M	3.3	20	100KHz	30	3.90	3.90
SMTCD75-4R7M	4.7	20	100KHz	35	3.80	3.80
SMTCD75-5R6M	5.6	20	100KHz	40	3.20	3.20
SMTCD75-6R8M	6.8	20	100KHz	45	3.10	3.10
SMTCD75-8R2M	8.2	20	100KHz	50	2.80	2.80
SMTCD75-100K	10	10	100KHz	50	2.60	2.60
SMTCD75-120K	12	10	100KHz	70	2.10	2.10
SMTCD75-150K	15	10	100KHz	80	2.00	2.00
SMTCD75-180K	18	10	100KHz	100	1.60	1.60
SMTCD75-220K	22	10	100KHz	110	1.50	1.50
SMTCD75-270K	27	10	100KHz	120	1.30	1.30
SMTCD75-330K	33	10	100KHz	130	1.20	1.20
SMTCD75-390K	39	10	100KHz	160	1.10	1.10
SMTCD75-470K	47	10	100KHz	180	1.10	1.10
SMTCD75-560K	56	10	100KHz	240	0.94	0.94
SMTCD75-680K	68	10	100KHz	280	0.85	0.85
SMTCD75-820K	82	10	100KHz	360	0.78	0.78
SMTCD75-101K	100	10	100KHz	370	0.72	0.72
SMTCD75-121K	120	10	100KHz	470	0.66	0.66
SMTCD75-151K	150	10	100KHz	640	0.58	0.58
SMTCD75-181K	180	10	100KHz	710	0.51	0.51
SMTCD75-221K	220	10	100KHz	780	0.49	0.49
SMTCD75-301K	300	10	100KHz	1100	0.40	0.40
SMTCD75-331K	330	10	100KHz	1260	0.40	0.40
SMTCD75-471K	470	10	100KHz	1890	0.35	0.35
SMTCD75-561K	560	10	100KHz	2000	0.33	0.33
SMTCD75-681K	680	10	100KHz	2560	0.31	0.31
SMTCD75-821K	820	10	100KHz	3250	0.30	0.30
SMTCD75-102K	1000	10	100KHz	3300	0.30	0.30

Typical Performance curves:





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* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.