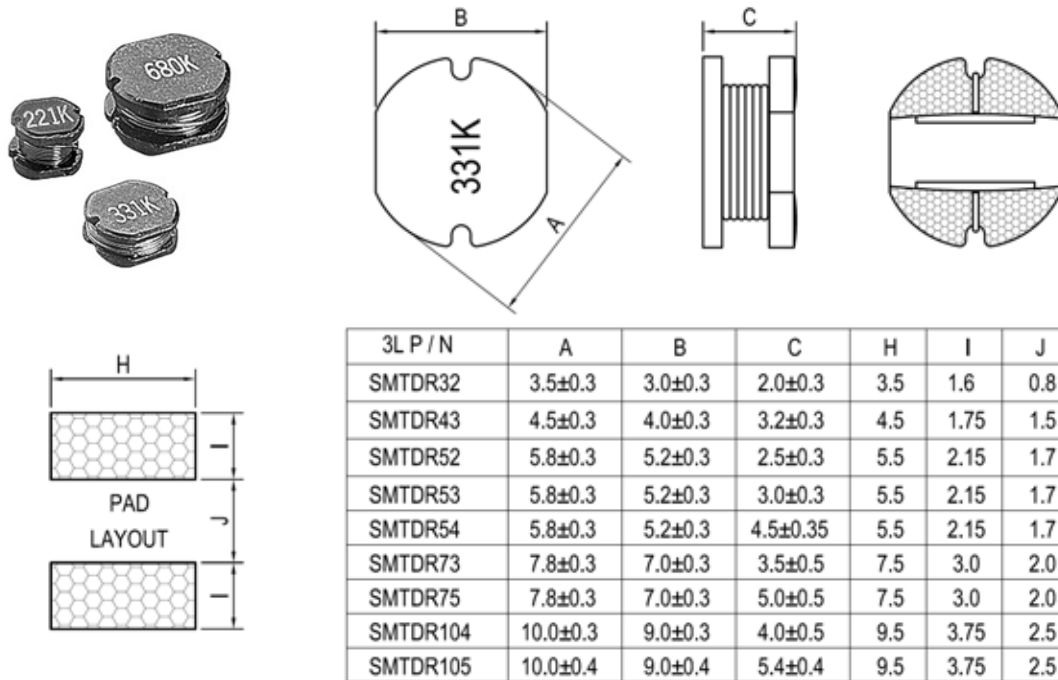




SMT POWER INDUCTORS

SMTDR 32/ 43/ 52/ 53/ 54/ 73/ 75/ 104/ 105 TYPE

Shape and Size : (Dimensions are in mm)



Features :

- . Silver Plated Type, Low cost design.
- . High power, High saturation inductors.
- . Ideal inductors for DC-DC conversion.
- . Available on tape and reel for auto surface mounting.

Ordering Information :

SMT DR105 - 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%

Inductance and rated current ranges :

- | | | |
|------------|-------------|--------------|
| . SMTDR32 | 1.0 ~ 330uH | 2.2 ~ 0.12A |
| . SMTDR43 | 1.0 ~ 68uH | 2.56 ~ 0.37A |
| . SMTDR52 | 1.2 ~ 470uH | 3.5 ~ 0.16A |
| . SMTDR53 | 1.0 ~ 470uH | 4.5 ~ 0.20A |
| . SMTDR54 | 10 ~ 220uH | 1.44 ~ 0.35A |
| . SMTDR73 | 10 ~ 330uH | 1.44 ~ 0.28A |
| . SMTDR75 | 10 ~ 470uH | 2.30 ~ 0.34A |
| . SMTDR104 | 10 ~ 560uH | 2.38 ~ 0.32A |
| . SMTDR105 | 10 ~ 820uH | 2.60 ~ 0.24A |

Characteristics :

- . Rated DC current : obtained when the inductance is 90% more than its initial value and temperature rise t=40 lower.
- . Operating temperature : -20 to 80 .

Applications :

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

Test equipments :

- L : HP4284A or HP4285A LCR meter.
- DCR tested by Milli-ohm meter.
- . Electrical specifications at 25 .



SMT POWER INDUCTORS

SMTDR 32 / 43 / 52 / 53 / 54 TYPE

Part No.	L (μH)	DC resistance (Ohm) Max					Rated DC current (Amp) Max				
		DR32	DR43	DR52	DR53	DR54	DR32	DR43	DR52	DR53	DR54
1R0	1.0	0.045	0.0487		0.03		2.20	2.56		4.50	
1R2	1.2	0.050		0.050	0.03		2.10		4.20	4.20	
1R4	1.4		0.0562					2.52			
1R5	1.5	0.055		0.060	0.03		1.70		4.00	4.10	
1R8	1.8	0.070	0.0637	0.065	0.03		1.65	1.95	3.70	3.70	
2R2	2.2	0.085	0.0712	0.07	0.03		1.60	1.75	3.50	3.50	
2R7	2.7	0.100	0.0787	0.08	0.04		1.40	1.58	3.20	3.20	
3R3	3.3	0.120	0.0862	0.10	0.05		1.04	1.44	2.70	2.80	
3R9	3.9	0.125	0.0937	0.12	0.06		1.00	1.33	2.40	2.60	
4R7	4.7	0.135	0.1087	0.14	0.07		1.00	1.15	2.00	2.50	
5R6	5.6	0.145	0.1257	0.15	0.08		0.95	0.99	1.80	2.40	
6R8	6.8	0.20	0.1312	0.16	0.09		0.95	0.95	1.50	2.20	
8R2	8.2	0.25	0.1462	0.17	0.10		0.92	0.84	1.40	2.00	
100	10.0	0.32	0.182	0.20	0.13	0.10	0.90	1.05	1.30	1.80	1.44
120	12.0	0.35	0.210	0.23	0.16	0.12	0.85	0.97	1.10	1.75	1.40
150	15.0	0.46	0.235	0.25	0.19	0.14	0.75	0.85	1.05	1.70	1.30
180	18	0.52	0.338	0.30	0.21	0.15	0.70	0.74	1.00	1.60	1.23
220	22	0.65	0.378	0.35	0.28	0.18	0.60	0.68	0.90	1.50	1.11
270	27	0.75	0.522	0.40	0.32	0.20	0.55	0.62	0.85	1.40	0.97
330	33	0.92	0.540	0.50	0.38	0.23	0.50	0.56	0.75	1.10	0.88
390	39	1.12	0.587	0.55	0.42	0.32	0.48	0.52	0.70	1.00	0.80
470	47	1.27	0.844	0.65	0.52	0.37	0.45	0.44	0.60	0.90	0.72
560	56	1.50	0.937	0.75	0.50	0.42	0.30	0.42	0.55	0.85	0.68
680	68	2.00	1.117	0.95	0.68	0.46	0.26	0.37	0.50	0.80	0.61
820	82	2.15		1.20	0.82	0.60	0.23		0.45	0.65	0.58
101	100	2.85		1.40	1.10	0.70	0.20		0.40	0.60	0.52
121	120	3.40		1.75	1.20	0.93	0.18		0.35	0.58	0.48
151	150	4.20		2.00	1.50	1.10	0.16		0.25	0.43	0.40
181	180	4.50		2.60	1.80	1.38	0.15		0.22	0.41	0.38
221	220	5.70		3.00	2.00	1.57	0.14		0.20	0.38	0.35
271	270	8.50		3.70	2.90		0.10		0.18	0.35	
331	330	9.50		4.30	3.30		0.09		0.17	0.28	
391				6.00	3.70				0.16	0.260	
471				6.70	4.90				0.15	0.200	

Measuring Frequency :

1.0~8.2uH @ 7.96MHz 0.25V; 10~82uH @ 2.52MHz 0.25V; 100~470uH @ 1kHz 0.25V

Tolerance of Inductance :

SMTDR32 1.0~18uH (M) ± 20%; 22~330uH (K) ± 10%.

SMTDR43 1.0~27uH (M) ± 20%; 33~68uH (K) ± 10%.

SMTDR52 1.2~18uH (M) ± 20%; 22~470uH (K) ± 10%.

SMTDR53 1.0~18uH (M) ± 20%; 22~470uH (K) ± 10%.

SMTDR54 10~27uH (M) ± 20%; 33~220uH (K) ± 10%.



SMT POWER INDUCTORS

SMTDR 73/ 75 / 104 / 105 TYPE

Part No.	L (μH)	DC resistance (Ohm) Max				Rated DC current (Amp) Max			
		DR73	DR75	DR104	DR105	DR73	DR75	DR104	DR105
100	10	0.0803	0.07	0.053	0.06	1.44	2.30	2.38	2.60
120	12	0.0897	0.08	0.061	0.07	1.39	2.00	2.13	2.45
150	15	0.104	0.09	0.070	0.08	1.24	1.80	1.87	2.27
180	18	0.111	0.10	0.081	0.09	1.12	1.60	1.73	2.15
220	22	0.129	0.11	0.088	0.10	1.07	1.50	1.60	1.95
270	27	0.153	0.12	0.100	0.11	0.94	1.30	1.44	1.76
330	33	0.170	0.13	0.120	0.12	0.85	1.20	1.26	1.50
390	39	0.217	0.16	0.151	0.14	0.74	1.10	1.20	1.37
470	47	0.252	0.18	0.170	0.17	0.68	1.10	1.10	1.28
560	56	0.282	0.24	0.199	0.19	0.64	0.94	1.01	1.17
680	68	0.332	0.28	0.223	0.22	0.59	0.85	0.91	1.11
820	82	0.406	0.37	0.252	0.25	0.54	0.78	0.85	1.00
101	100	0.481	0.43	0.344	0.35	0.51	0.72	0.74	0.97
121	120	0.536	0.47	0.396	0.40	0.49	0.66	0.69	0.89
151	150	0.755	0.64	0.544	0.47	0.40	0.58	0.61	0.78
181	180	1.022	0.71	0.621	0.63	0.36	0.51	0.56	0.72
221	220	1.200	0.96	0.721	0.73	0.31	0.49	0.53	0.66
271	270	1.306	1.11	0.949	0.97	0.29	0.42	0.45	0.57
331	330	1.495	1.26	1.100	1.15	0.28	0.40	0.42	0.52
391	390		1.77	1.245	1.30		0.36	0.38	0.48
471	470		1.96	1.526	1.48		0.34	0.35	0.42
561	560			1.904	1.90			0.32	0.33
681	680				2.25				0.28
821	820				2.55				0.24

Measuring Frequency :

10~82uH @ 2.52MHz 0.25V; 100~330uH @ 1kHz 0.25V

Tolerance of Inductance :

SMTDR73 10~470uH (K) ± 10%; 56~330uH (K) ± 10%.

SMTDR75 10~470uH (K) ± 10%.

SMTDR104 10~47uH (M) ± 20%; 56~560uH (K) ± 10%.

SMTDR105 10~39uH (M) ± 20%; 47~820uH (K) ± 10%.