



SMD POWER INDUCTORS

MODEL

CONSTRUCTION

DRH



Series

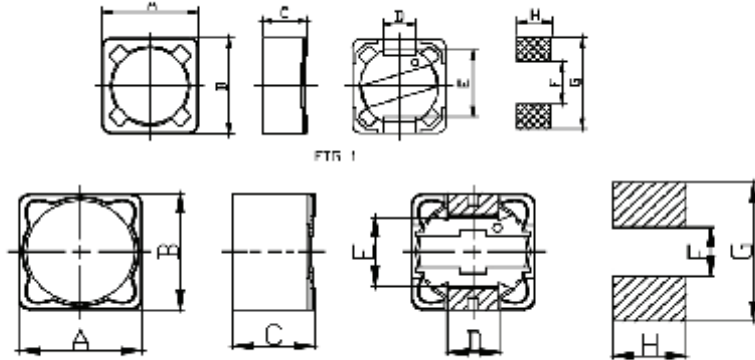


FIG 2

FEATURES

- With magnetic shield against radiation.
- Large terminal surface for good PCB mounting.
- High current capacity.
- Low core loss for high frequency power application.
- Operating temperature -25°C to +85°C

APPLICATION

- Output choke coil for DC/DC converter etc.
- Used in power supply of all kinds of small size electrical devices, such as switching power supplies, charger, various computer peripheral equipment etc.

DIMENSION (mm)

TYPE	A	B	C	D	E	F	G	H	Package (pcs/reel)	FIG
DRH73	7.3±0.2	7.3±0.2	3.5 Max	1.8	5.0	4.8	7.8	2.2	1500	1
DRH74	7.3±0.2	7.3±0.2	4.5 Max	1.8	5.0	4.8	7.8	2.2	1000	1
DRH124	12.0±0.3	12.0±0.3	5.0 Max	5.0	7.6	7.0	12.6	5.4	500	2
DRH125	12.0±0.3	12.0±0.3	6.0 Max	5.0	7.6	7.0	12.6	5.4	500	2
DRH127	12.0±0.3	12.0±0.3	8.0 Max	5.0	7.6	7.0	12.6	5.4	500	2

※ Specifications other than the above will be furnished upon request.



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ELECTRICAL CHARACTERISTIC

TYPE: DRH73, DRH74, DRH124, DRH125, DRH127.																
PARTS No.	L(μH)	D.C.R.(Max.)					Isat (Max.)					Irms (Max.)				
		DRH73	DRH74	DRH124	DRH125	DRH127	DRH73	DRH74	DRH124	DRH125	DRH127	DRH73	DRH74	DRH124	DRH125	DRH127
1R2	1.2					6.5					19.74					10.58
2R7	2.7					10.5					12.89					8.09
3R9	3.9			13.7		12.5			8.26		11.02			6.68		7.42
5R2	5.2			15.5					7.19					6.03		
5R6	5.6					14.5					9.62					6.88
6R8	6.8			19.9		16.5			6.37		8.55			5.53		6.45
8R0	8.0					18.5					7.70					6.08
8R2	8.2			24.4					5.72					5.00		
100	10	72	70	32.4	27.0	20.5	1.84	2.10	5.19	4.50	7.01	2.11	1.90	4.50	4.20	5.74
120	12	98	75	35.6	28.0	22.5	1.60	1.82	4.75	4.30	6.43	1.70	1.80	4.00	3.60	5.46
150	15	120	85	43.9	32.0	25.0	1.52	1.75	4.38	3.90	5.94	1.50	1.72	3.50	3.50	5.20
180	18	130	100	52.1	35.0	29.5	1.40	1.61	3.79	3.60	5.17	1.46	1.67	3.18	3.20	4.76
220	22	170	120	65.7	44.0	39.5	1.28	1.40	3.34	3.20	4.86	1.23	1.50	3.11	2.90	4.07
270	27	190	140	70.3	51.0	43.0	1.16	1.26	3.16	2.90	4.58	1.22	1.32	2.75	2.70	3.90
330	33	220	170	90.5	57.0	61.0	1.04	1.05	2.84	2.50	4.11	1.20	1.21	2.60	2.50	3.25
390	39	280	200	123.9	68.0	68.5	0.96	0.98	2.59	2.20	3.73	0.98	1.06	1.96	2.20	3.06
470	47	320	240	132.3	75.0	76.5	0.88	0.84	2.37	2.20	3.42	0.92	1.00	1.91	2.00	2.89
560	56	360	270	168.9	91.0	108.0	0.80	0.78	2.19	2.10	3.15	0.88	0.98	1.73	1.90	2.42
680	68	470	350	181.9	140.0	134.0	0.74	0.75	2.04	1.80	2.82	0.81	0.84	1.58	1.60	2.11
820	82	650	420	214.8	150.0	146.0	0.65	0.66	1.79	1.70	2.65	0.61	0.78	1.52	1.50	2.02
101	100	720	470	266.3	160.0	209.0	0.60	0.63	1.63	1.40	2.34	0.60	0.70	1.36	1.45	1.67
121	120	820	640	330.6	180.0	231.0	0.55	0.56	1.51	1.40	2.17	0.55	0.64	1.19	1.30	1.58
151	150	1160	730	468.9	240.0	259.0	0.48	0.50	1.33	1.20	1.96	0.46	0.55	1.01	1.05	1.49
181	180	1200	980	524.9	290.0	333.0	0.45	0.45	1.22	1.10	1.80	0.43	0.50	0.95	1.00	1.30
221	220	1370	1130	602.6	350.0	375.0	0.41	0.41	1.13	1.00	1.62	0.41	0.48	0.85	0.95	1.23
271	270	2000	1380	823.9	430.0	532.0	0.37	0.37	1.05	0.90	1.48	0.40	0.44	0.74	0.90	1.02
331	330	2270	1650	932.1	510.0	597.0	0.33	0.34	0.95	0.85	1.34	0.34	0.39	0.69	0.80	0.96
391	390	2590	1830		620.0	653.0	0.31	0.31		0.80	1.25	0.31	0.37		0.70	0.92
471	470	3390	2050		700.0	911.0	0.27	0.29		0.73	1.14	0.28	0.33		0.65	0.77
561	560	3780	2570		860.0	994.0	0.25	0.25		0.60	1.05	0.25	0.29		0.58	0.73
681	680	5120	3000		1050.0	1370.0	0.22	0.23		0.55	0.96	0.22	0.27		0.55	0.61
821	820	5760	3750		1340.0	1530.0	0.21	0.21		0.53	0.87	0.20	0.26		0.47	0.57
102	1000	8200	4250		1530.0	1700.0	0.18	0.20		0.45	0.80	0.18	0.23		0.42	0.54

TESTING FREQUENCY OF INDUCTANCE: 1 kHz, 1.0V

Tolerance of inductance: 1.0uH~8.2uH ±30%(N); 10.0uH~1000.0uH± 20%(M).

RATED CURRENT: THE VALUE OF DIRECT CURRENT WHEN THE INDUCTANCE IS 10% LOWER THAN IT'S INITIAL VALUE AT D.C. SUPERPOSITION OR WHEN COIL TEMPERATURE RISE $\Delta T=40^{\circ}\text{C}$, WHICHEVER IS SMALLER. ($T_a=20^{\circ}\text{C}$).

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