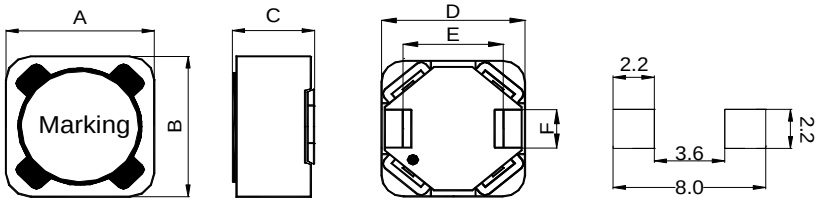
SDRH74B Series

1. Features:

· Ferrite based SMD Inductor with lower core loss.
· Inductance Range:1.0uH to 1000uH. Custom values are welcomed.
· High current output chokes, up to 10.2 Amp with about 30% roll off.
· Low profile 4.5mm Max.height
· Foot print 7.6 x 7.6mm Max.
· Ideal for LCD driver,DSC/DVC,Notebook PC or High density board design.
· Operating Temperature Range -55°C to + 130°C;RoHs&HF compliance.
· T & R Qtys: 1100 pcs , 13" Reel ;

2. Mechanical Dimension(Unit:mm):



TOP VIEW SIED VIEW BOTTOM VIEW Suggest PCB Layout

Type	SDRH74B
A	7.3 ± 0.3
B	7.3 ± 0.3
C	4.5 (Max.)
D	7.0 ± 0.3
E	3.9 (Ref.)
F	2.0 (Ref.)

3. Electrical Characteristic of SDRH74B Series:

Part Number	OCL (uH) ±20%	DCR (Ω) Typ.	DCR (Ω) Max.	Isat (A) @25℃	L@Isat (uH) Typ.	Irms (A) @25℃	L@Irms (uH) Typ.
SDRH74B-1R0MHF	1.0	0.0085	0.0102	10.20	0.894	8.00	0.962
SDRH74B-1R5MHF	1.5	0.0118	0.0142	8.35	1.37	6.80	1.44
SDRH74B-2R2MHF	2.2	0.0135	0.0162	7.06	1.80	6.35	1.95
SDRH74B-3R3MHF	3.3	0.0171	0.0205	5.40	3.03	5.65	2.95
SDRH74B-4R7MHF	4.7	0.0234	0.0281	4.37	4.34	4.85	4.17
SDRH74B-6R8MHF	6.8	0.0395	0.0474	3.67	6.23	3.70	6.20
SDRH74B-8R2MHF	8.2	0.0407	0.0488	3.40	6.83	3.65	6.30
SDRH74B-100MHF	10	0.0475	0.0570	3.17	7.75	3.40	7.00
SDRH74B-150MHF	15	0.0671	0.0805	2.48	12.53	2.85	10.35
SDRH74B-220MHF	22	0.0961	0.115	2.13	17.20	2.40	14.00
SDRH74B-330MHF	33	0.143	0.172	1.73	27.32	1.95	22.30
SDRH74B-470MHF	47	0.219	0.263	1.41	41.67	1.58	35.70
SDRH74B-680MHF	68	0.274	0.329	1.19	53.70	1.41	39.80
SDRH74B-820MHF	82	0.325	0.390	1.11	68.10	1.30	52.50
SDRH74B-101MHF	100	0.409	0.491	0.99	80.95	1.15	62.60
SDRH74B-151MHF	150	0.598	0.718	0.81	109.30	0.95	82.20
SDRH74B-221MHF	220	0.915	1.100	0.66	184.50	0.77	141.20
SDRH74B-331MHF	330	1.360	1.630	0.54	292.40	0.64	230.30
SDRH74B-471MHF	470	1.980	2.376	0.46	433.80	0.53	355.60
SDRH74B-681MHF	680	2.650	3.180	0.38	635.80	0.46	476.00
SDRH74B-821MHF	820	3.350	4.020	0.35	789.00	0.40	707.20
SDRH74B-102MHF	1000	4.500	5.400	0.31	956.30	0.35	898.20

Note:
1.OCL (Open Circuit Inductance) and L@ Irms and L @Isat and DCR are measured at: 100KHz,0.25V @ 25ºC.
2.Isat: DC current that causes inductance to drop by approximately 30% from OCL ;(Ta=25ºC)
3.Irms: DC current that causes an approximate temperature rise (△T) of 40℃;(Ta=25ºC)
4.Inductance Vs. DC bias curve,please see the next page to get more detail information.

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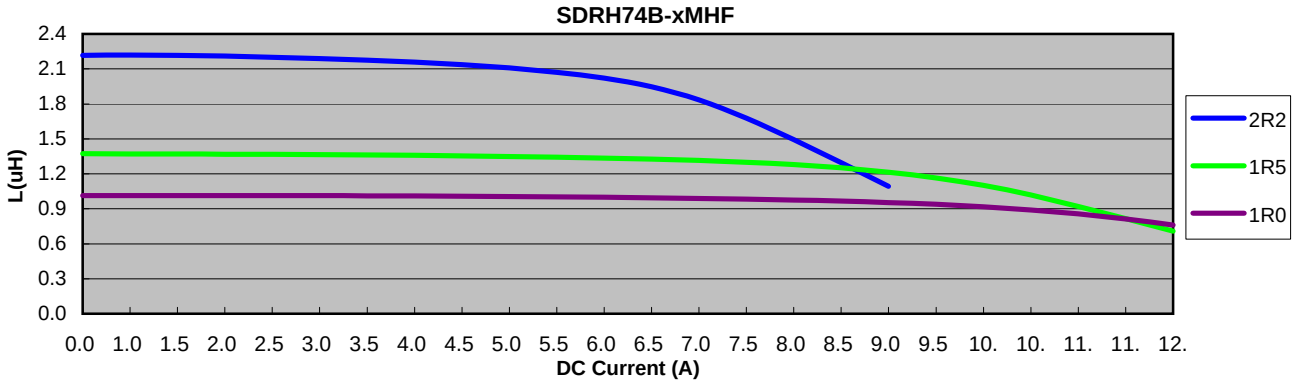
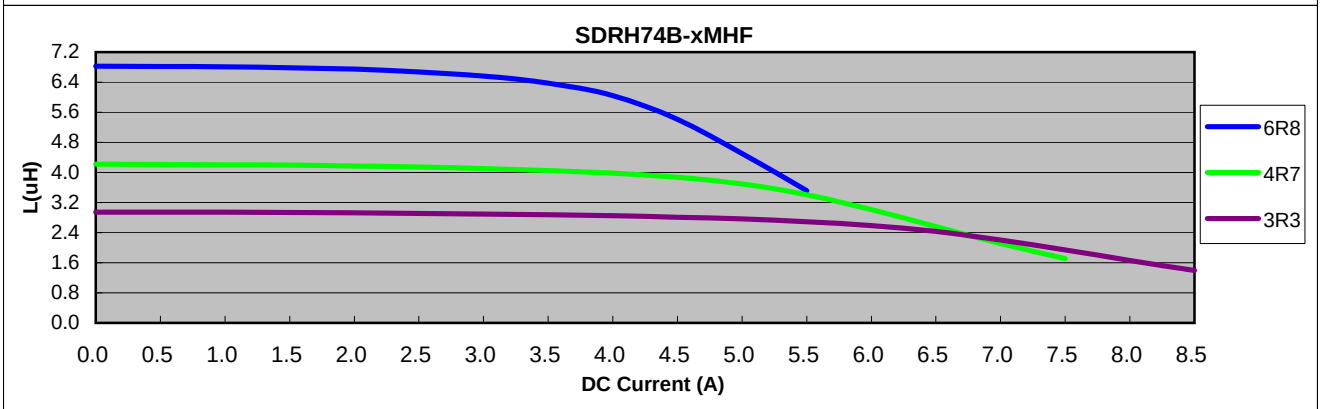
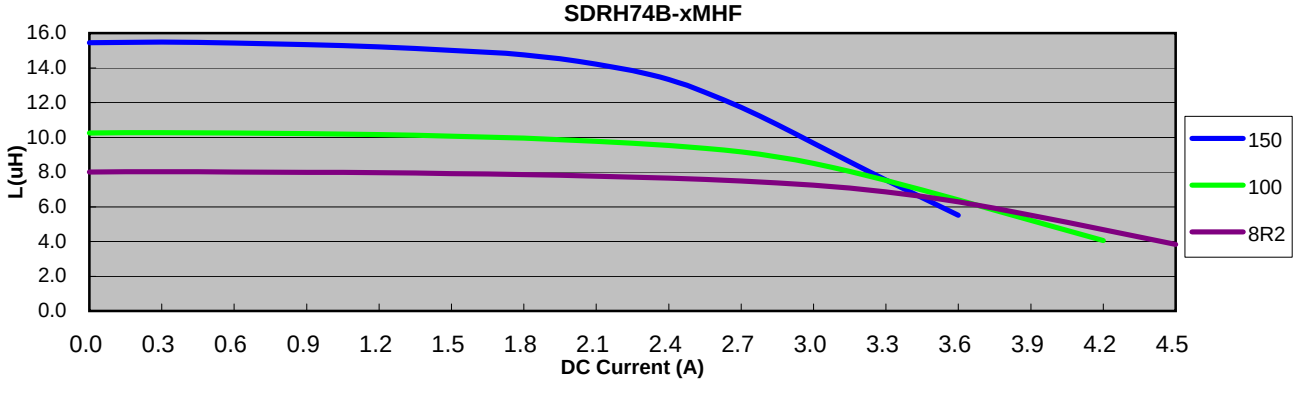
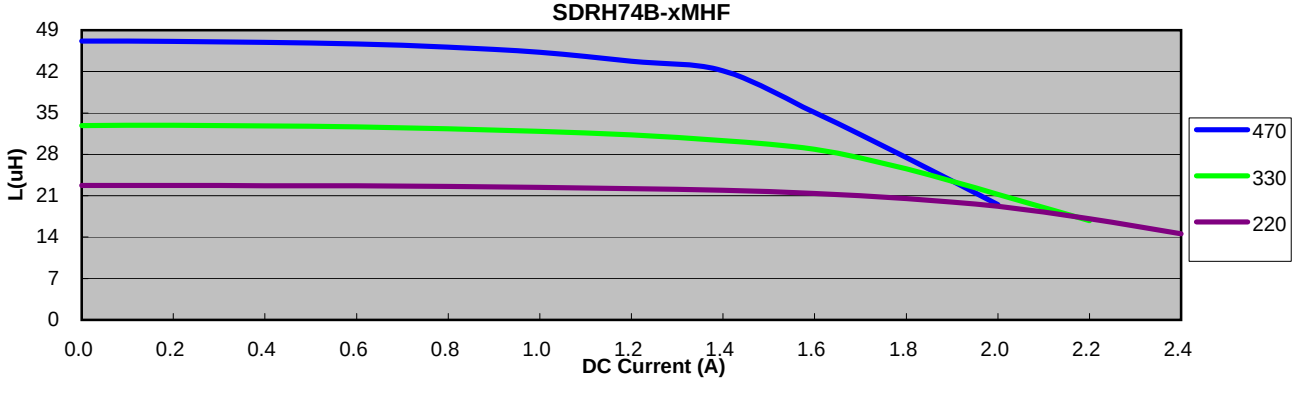
Inductance vs. Current









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Inductance vs. Current