Inductor



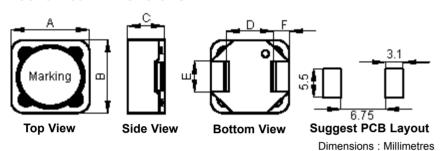


Features:



- Ferrite based SMD inductor with lower core loss.
- Inductance range: 0.82 μH to 1,000 μH. Custom values are welcome.
- High current output chokes, up to 24.2 amperes with about 30% roll off.
- Low profile 6 mm maximum height.
- Foot print 12.5 × 12.5 mm maximum.
- Ideal for LCD driver, DSC/DVC, Notebook PC or High density board design.
- Operating temperature range -55°C to + 130°C.
- T and R Quantity: 600 pieces, 13 inches reel.

Mechanical Dimensions



Тур.	MCSDRH125B		
А	12 ±0.5 mm	-	
В	12 ±0.5 mm	-	
С	6 mm	(Max.)	
D	7 mm		
Е	5 mm	(Ref.)	
F	2.5 mm		

Electrical Characteristics of MCSDRH125B Series

OCL (μΗ) ±20%	DCR (Ω) (Typ.)	DCR (Ω) (Max.)	I _{sat} (A) at 25°C	L at I _{sat} (μΗ) (Typ.)	I _{rms} (A) at 25°C	L at I _{rms} (μΗ) (Typ.)
0.82	0.0039	0.0047	24.2	0.659	15.5	0.807
1.5	0.0052	0.00625	18.5	1.12	13.3	1.4
2.2	0.0064	0.0077	14.8	1.75	12	2.05
3.3	0.0079	0.0095	12.6	2.65	10.8	2.95
4.7	0.0107	0.01285	10.1	3.6	9.3	4
6.8	0.0119	0.0143	8.4	5.75	8.8	5.5
8.2	0.0156	0.0187	7.6	6.6	7.7	6.5
10	0.0164	0.0197	6.9	8.3	7.5	7.45
15	0.0268	0.0322	5.65	11.2	5.8	10.77
22	0.0318	0.0382	4.7	18.7	5.4	15.3
33	0.0445	0.0534	4	26.65	4.5	21.7
47	0.0659	0.079	3.2	37.95	3.7	29.4
68	0.0991	0.119	2.7	55.6	3.05	45.3
82	0.121	0.145	2.4	67	2.75	52
100	0.155	0.186	2.2	79	2.4	66.7
150	0.217	0.26	1.8	124.8	2.05	98

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Inductor

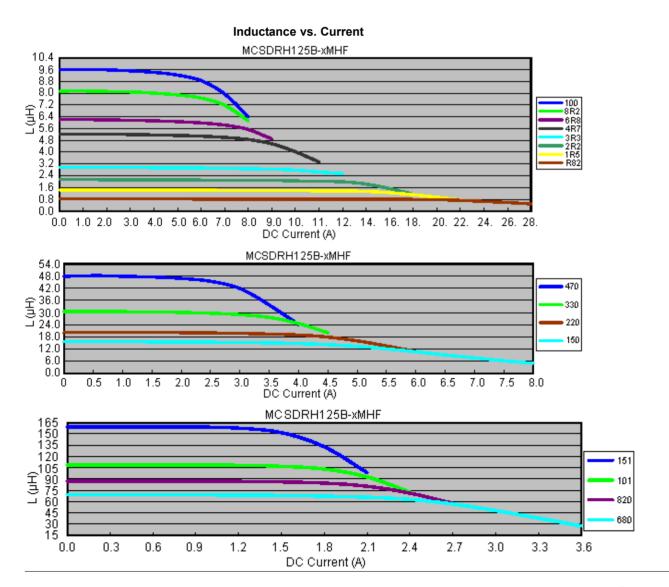


Electrical Characteristics of MCSDRH125B Series

OCL (μΗ) ±20%	DCR (Ω) (Typ.)	DCR (Ω) (Max.)	I _{sat} (A) at 25°C	L at I _{sat} (μΗ) (Typ.)	I _{rms} (A) at 25°C	L at I _{rms} (μΗ) (Typ.)
220	0.321	0.385	1.5	182.4	1.7	148
330	0.434	0.52	1.2	284	1.45	206.5
470	0.627	0.753	1	402	1.2	293
680	0.888	1.066	0.85	548	1	404
820	1.093	1.312	0.76	680	0.92	511
1,000	1.409	1.690	0.69	801	0.8	610

Note:

- 1. OCL (Open Circuit Inductance) and L at I_{rms} and L at I_{sat} and DCR are measured at: 100 KHz,0.25 V at 25°C.
- 2. I_{sat} : DC current that causes inductance to drop by approximately 30% from OCL; ($T_a = 25$ °C).
- 3. I_{rms} : DC current that causes an approximate temperature rise (ΔT) of 40°C; ($T_a = 25$ °C).

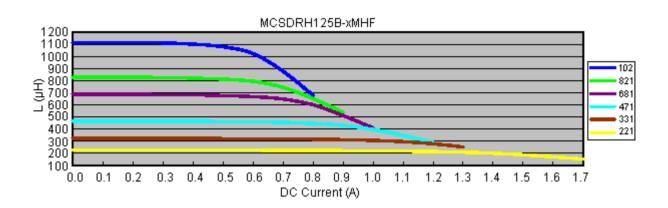


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Inductor





Part Number Table

Part Number
MCSDRH125B-R82MHF
MCSDRH125B-1R5MHF
MCSDRH125B-2R2MHF
MCSDRH125B-3R3MHF
MCSDRH125B-4R7MHF
MCSDRH125B-6R8MHF
MCSDRH125B-8R2MHF
MCSDRH125B-100MHF
MCSDRH125B-150MHF
MCSDRH125B-220MHF
MCSDRH125B-330MHF
MCSDRH125B-470MHF
MCSDRH125B-680MHF
MCSDRH125B-820MHF
MCSDRH125B-101MHF
MCSDRH125B-151MHF
MCSDRH125B-221MHF
MCSDRH125B-331MHF
MCSDRH125B-471MHF
MCSDRH125B-681MHF
MCSDRH125B-821MHF
MCSDRH125B-102MHF

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