

MTI-SDR1205A_{SERIES}

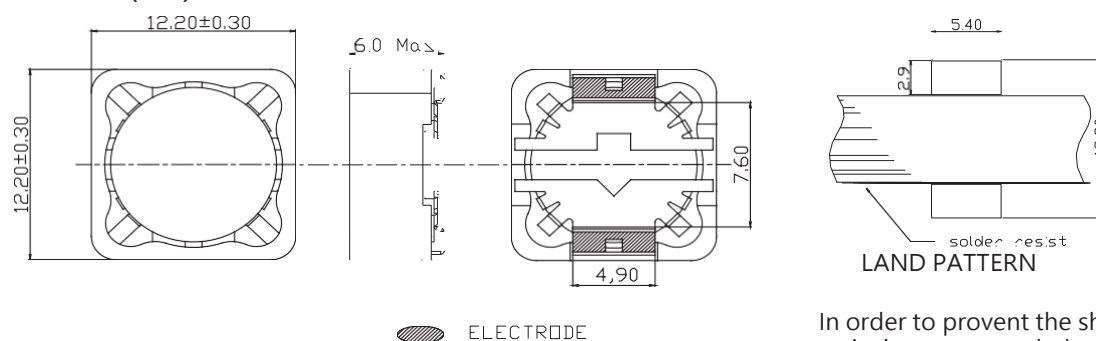
SMD Power Inductor



NEW

- Ferrite core construction
- L*W*H : 12.5*12.5*6.0 Max.
- High temperature inductor for Automotive application
- Operation temperature range : -40 degree to +125 degree (Including coil's self temp. rise)
- RoHs compliance
- Halogen free available
- Qualified to AEC-Q200

Dimension (mm)



In order to prevent the short-circuiting a solder resist is recommended

UNIT:mm

Electrical Specifications at 25°C

No.	Part Number	MARK	OCL(μH)	DCR (mohm)		Saturation Current (A)		Temperature Rise Current (A)
				Max.	Typ.	At 25		
1	MTI-SDR1205A-1R5-T125	1R5	1.5±30%	8.5	6.60	14.20	11.60	9.00
2	MTI-SDR1205A-2R2-T125	2R2	2.2±30%	10.6	7.20	12.60	10.10	8.00
3	MTI-SDR1205A-2R7-T126	2R7	2.7±30%	12.8	8.10	10.20	8.20	7.40
4	MTI-SDR1205A-4R3-T125	4R3	4.3±30%	15.0	8.68	8.20	6.70	6.80
5	MTI-SDR1205A-5R6-T125	5R6	5.6±30%	17.5	10.4	7.20	5.90	6.50
6	MTI-SDR1205A-6R8-T125	6R8	6.8±30%	20.0	11.1	6.20	4.90	5.90
7	MTI-SDR1205A-100-T125	100	10.0±20%	25.0	16.1	5.20	4.10	5.30
8	MTI-SDR1205A-150-T125	150	15.0±20%	33.8	23.3	4.40	3.50	4.50
9	MTI-SDR1205A-220-T125	220	22.0±20%	39.5	35.8	3.50	2.81	3.70
10	MTI-SDR1205A-330-T125	330	33.0±20%	59.0	46.5	2.93	2.38	3.00
11	MTI-SDR1205A-470-T125	470	47.0±20%	93.0	73.3	2.44	2.00	2.42
12	MTI-SDR1205A-680-T125	680	68.0±20%	131	97.5	2.02	1.65	2.05
13	MTI-SDR1205A-101-T125	101	100±20%	166	146	1.70	1.37	1.82
14	MTI-SDR1205A-151-T125	151	150±20%	271	244	1.36	1.11	1.40
15	MTI-SDR1205A-221-T125	221	220±20%	394	340	1.12	0.90	1.15
16	MTI-SDR1205A-331-T125	331	330±20%	674	491	0.90	0.73	0.90
17	MTI-SDR1205A-471-T125	471	470±20%	858	670	0.75	0.61	0.81
18	MTI-SDR1205A-681-T125	681	680±20%	1220	1034	0.62	0.50	0.65
19	MTI-SDR1205A-102-T125	102	1000±20%	1900	1505	0.52	0.42	0.50

1. OCL Measuring condition is 100KHz · 0.1Vrms.

2. Saturation current: The value of D.C current when the inductance decreases to 65% of it's normal value.

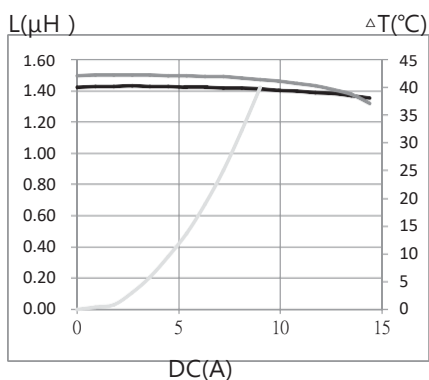
3. Temperature rise current: The value of D.C. current when the temperature rise is ΔT=40°C (Ta=25°C)



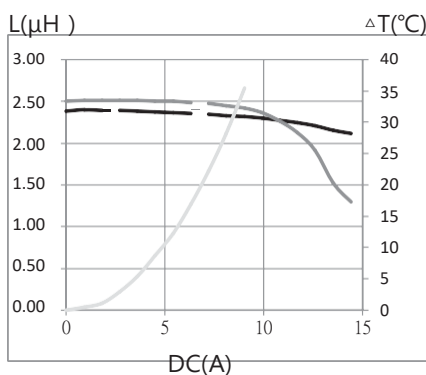
Saturated Current and Temperature Rise Graph.

L(25°C)
 L(125°C)
 ΔT

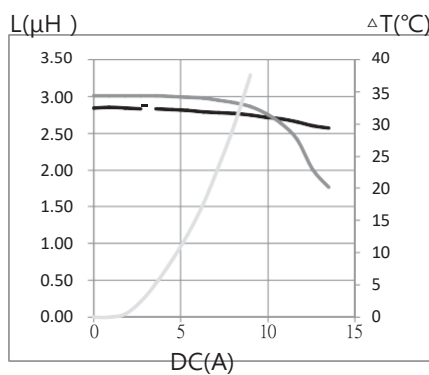
1. MTI-SDR1205A-1R5-T125



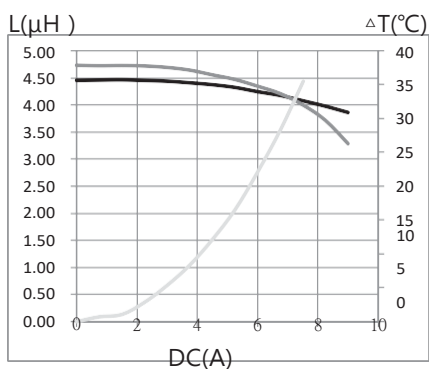
2. MTI-SDR1205A-2R2-T125



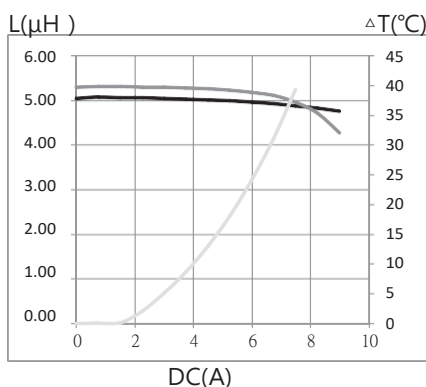
3. MTI-SDR1205A-2R7-T125



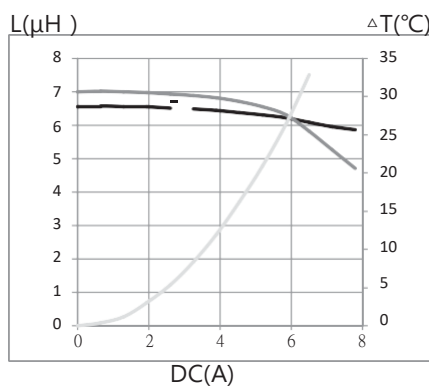
4. MTI-SDR1205A-4R3-T125



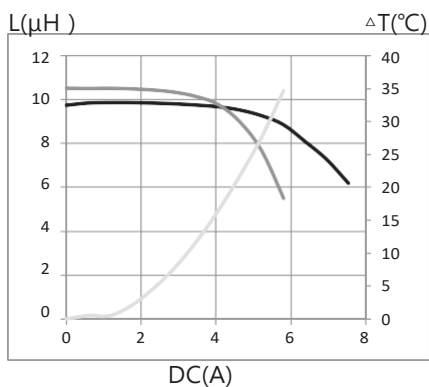
5. MTI-SDR1205A-5R6-T125



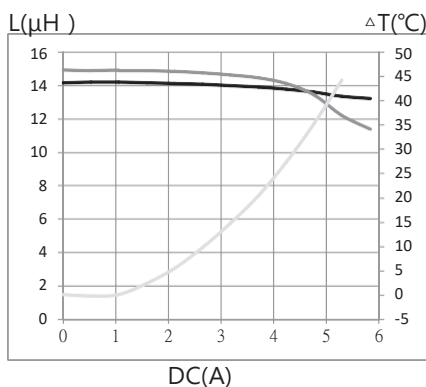
6. MTI-SDR1205A-6R8-T125



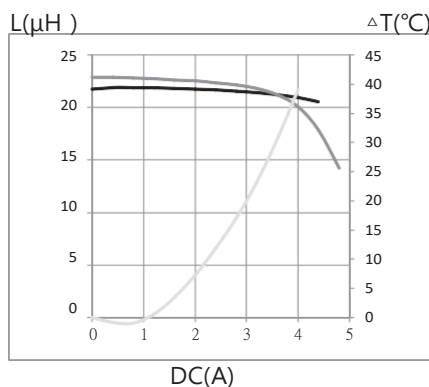
7. MTI-SDR1205A-100-T125



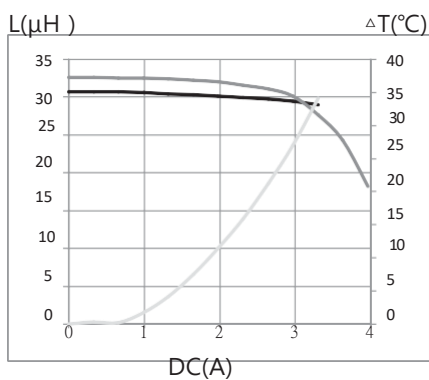
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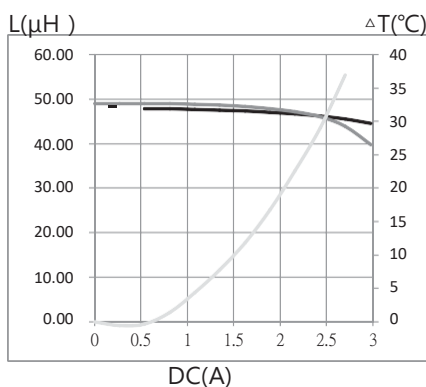
9. MTI-SDR1205A-220-T125



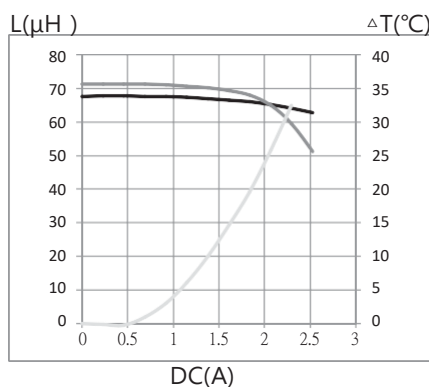
10. MTI-SDR1205A-330-T125



11. MTI-SDR1205A-470-T125

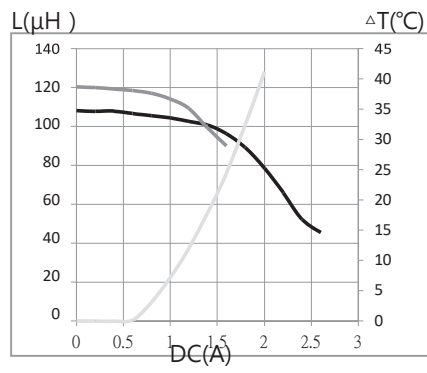


12. MTI-SDR1205A-680-T125

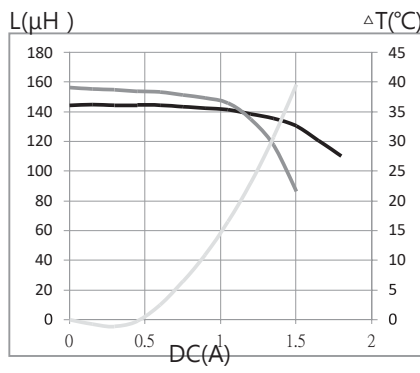


MTI-SDR1205A

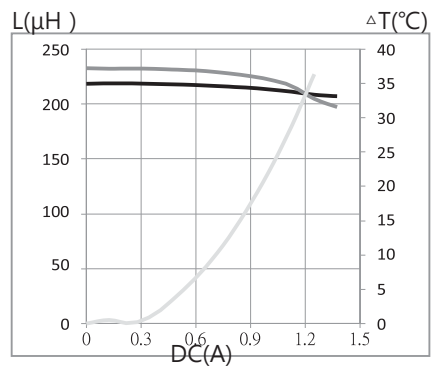
13 MTI-SDR1205A-101-T125



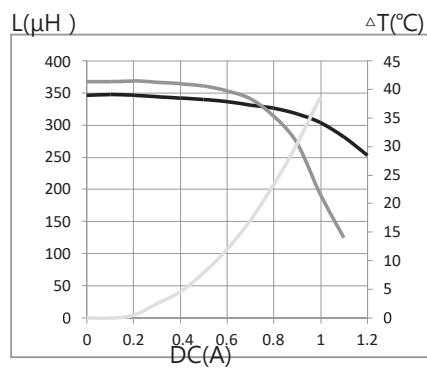
14. MTI-SDR1205A-151-T125



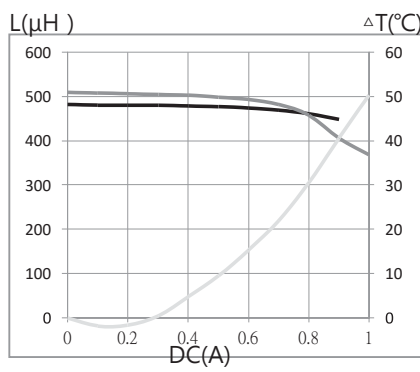
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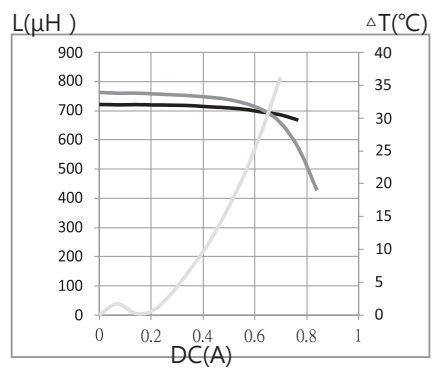
16 MTI-SDR1205A-331-T125



17. MTI-SDR1205A-471-T125



18. MTI-SDR1205A-681-T125



19. MTI-SDR1205A-102-T125

