

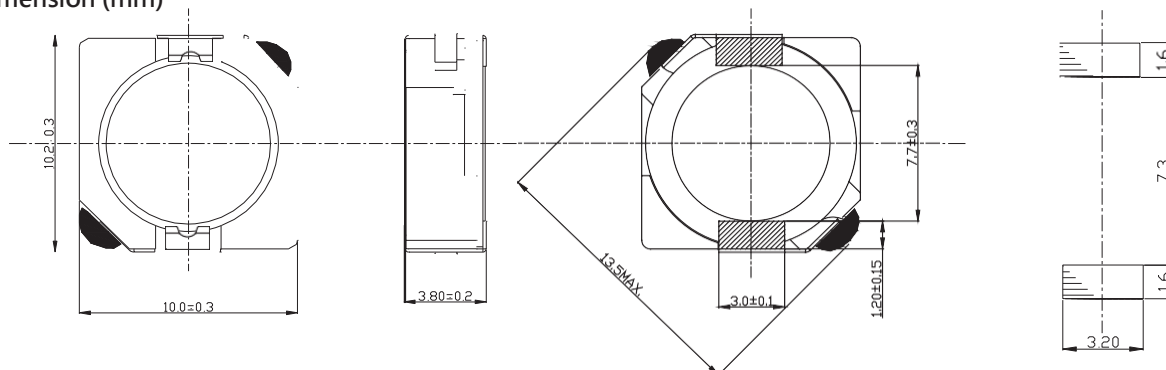
MTI-SDR1004A_{SERIES}

SMD Power Inductor



- Ferrite core construction
- L*W*H :10.3 *10.5 *4.0 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)



LAND PATTERN
UNIT:mm

Electrical Specifications at 25 °C

No.	Part Number	MARK	OCL(uH)	DCR (mohm)		Saturation Current (A)		Temperature Rise Current (A)
				Max.	Typ.	At 25		
1	MTI-SDR1004A-1R5-T125	1R5	1.5±25%	9.70	5.78	9.20	7.36	7.80
2	MTI-SDR1004A-2R2-T125	2R2	2.2±25%	11.0	7.45	8.00	6.16	7.00
3	MTI-SDR1004A-3R3-T125	3R3	3.3±25%	14.0	11.5	6.07	5.00	5.50
4	MTI-SDR1004A-4R7-T125	4R7	4.7±25%	19.1	14.5	5.57	4.60	5.00
5	MTI-SDR1004A-6R8-T125	6R8	6.8±25%	25.6	18.7	4.66	3.94	4.30
6	MTI-SDR1004A-100-T125	100	10±20%	36.8	23.9	4.10	3.46	3.50
7	MTI-SDR1004A-150-T125	150	15±20%	48.1	34.8	3.34	2.80	2.90
8	MTI-SDR1004A-220-T125	220	22±20%	70.0	54.3	2.56	2.18	2.30
9	MTI-SDR1004A-330-T125	330	33±20%	93.8	70.2	2.14	1.80	2.05
10	MTI-SDR1004A-470-T125	470	47±20%	136	104	1.80	1.51	1.68
11	MTI-SDR1004A-680-T125	680	68±20%	216	145	1.57	1.32	1.25
12	MTI-SDR1004A-101-T125	101	100±20%	300	229	1.30	1.10	1.05
13	MTI-SDR1004A-151-T125	151	150±20%	448	350	1.00	0.85	0.86
14	MTI-SDR1004A-221-T125	221	220±20%	694	507	0.85	0.72	0.68
15	MTI-SDR1004A-331-T125	331	330±20%	1060	789	0.70	0.58	0.56

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.

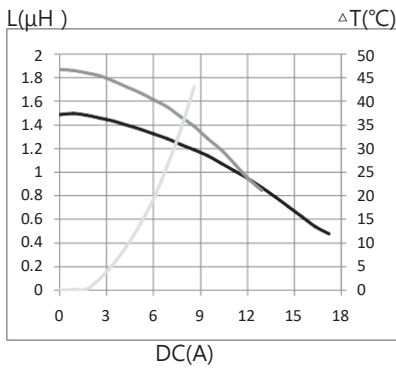
3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$)



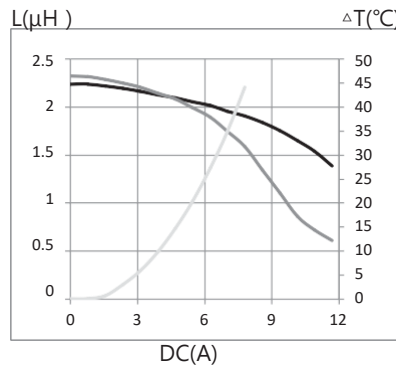
Saturated Current and Temperature Rise Graph.

— L(25°C) — L(125°C) — ΔT

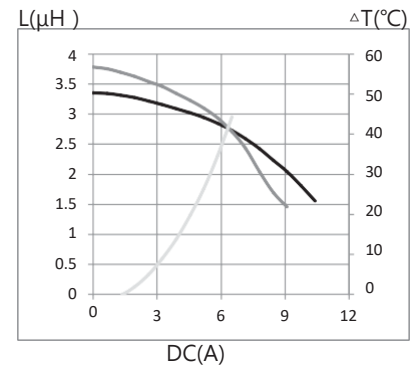
1. MTI-SDR1004A-1R5-T125



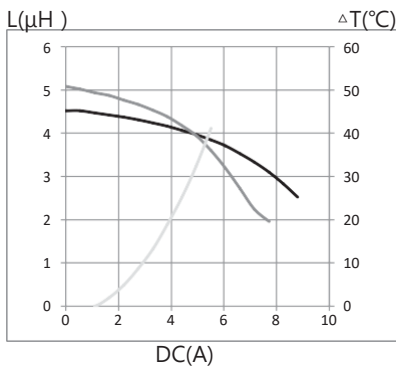
2. MTI-SDR1004A-2R2-T125



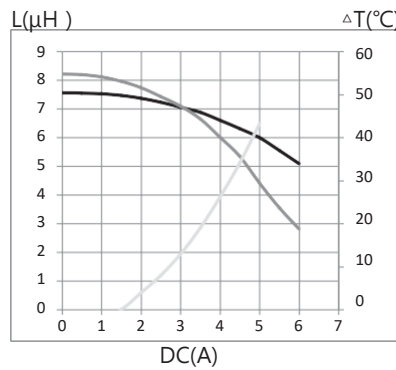
3. MTI-SDR1004A-3R3-T125



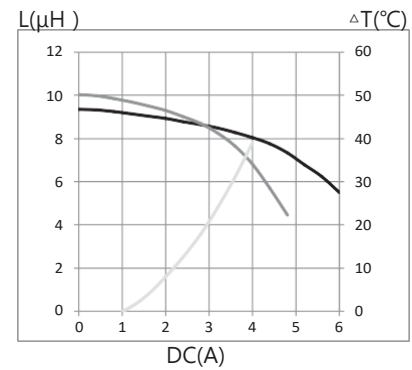
4. MTI-SDR1004A-4R7-T125



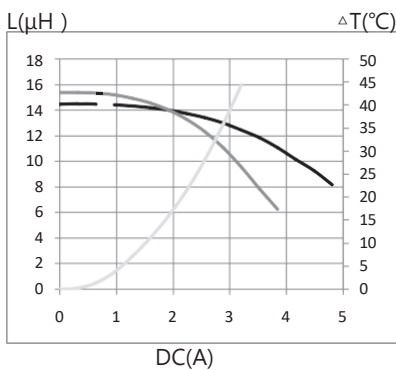
5. MTI-SDR1004A-6R8-T125



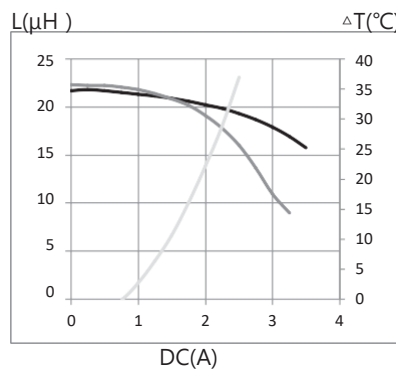
6. MTI-SDR1004A-100-T125



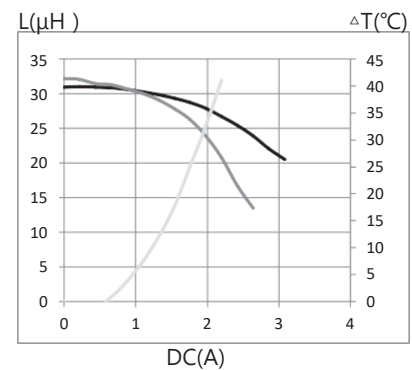
7. MTI-SDR1004A-150-T125



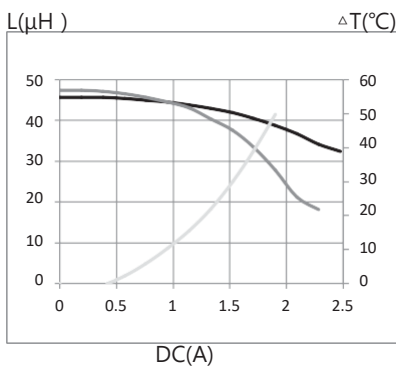
8. MTI-SDR1004A-220-T125



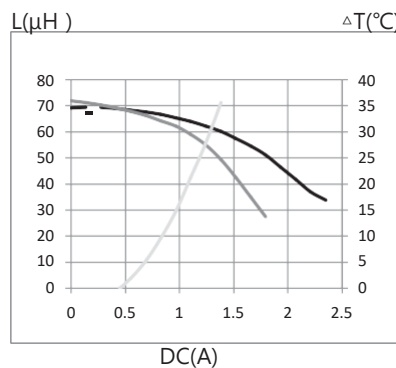
9. MTI-SDR1004A-330-T125



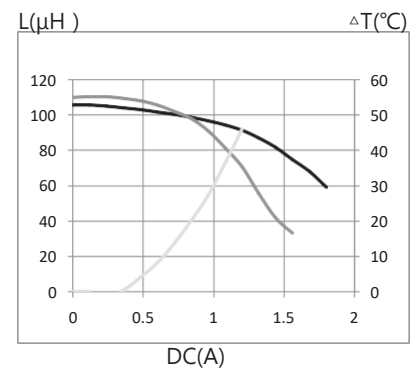
10. MTI-SDR1004A-470-T125



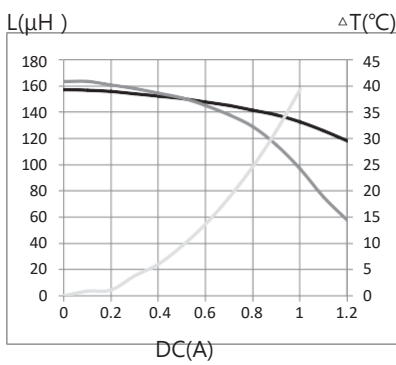
11. MTI-SDR1004A-680-T125



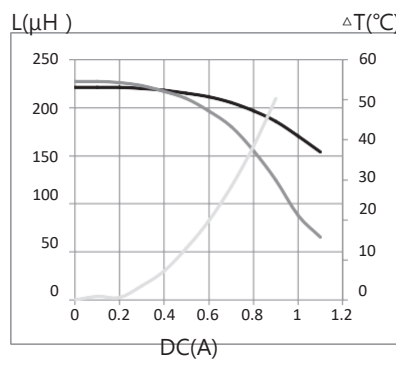
12. MTI-SDR1004A-101-T125



13. MTI-SDR1004A-151-T125



14. MTI-SDR1004A-221-T125



15. MTI-SDR1004A-331-T125

