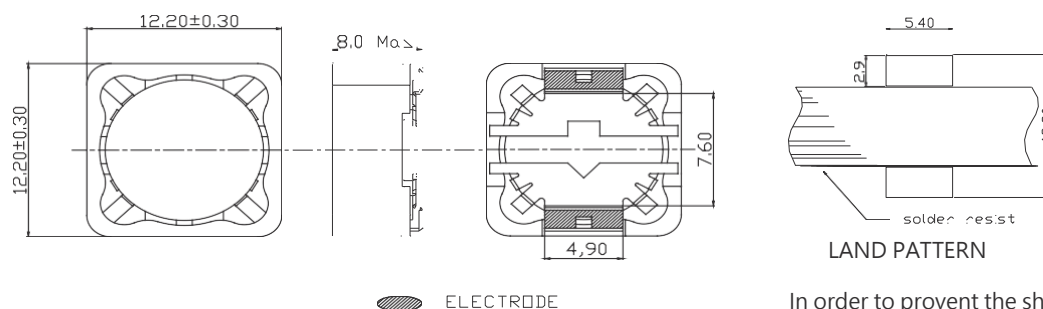


MTI-SDR1207A_{SERIES}

SMD Power Inductor



- Ferrite core construction
- L*W*H :12.5 * 12.5 *8.0 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



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°C	At 125°C	
1	MTI-SDR1207A-2R7-T125	2R7	2.7±30%	8.2(6.3)	15.5	13.8	8.8
2	MTI-SDR1207A-3R6-T125	3R6	3.6±30%	9.9(7.6)	13.8	10.8	8
3	MTI-SDR1207A-4R7-T125	4R7	4.7±30%	10.2(7.8)	12.3	9.85	7.5
4	MTI-SDR1207A-6R2-T125	6R2	6.2±30%	11.1(8.5)	10.2	8.2	7
5	MTI-SDR1207A-7R5-T125	7R5	7.5±30%	12.6(9.7)	9.2	7.37	6.5
6	MTI-SDR1207A-100-T125	100	10.0±20%	17.1(13.7)	8.4	6.6	5.9
7	MTI-SDR1207A-150-T125	150	15.0±20%	20.8(16.6)	6.4	5.3	5.6
8	MTI-SDR1207A-220-T125	220	22.0±20%	34.7(27.8)	5.6	4.4	4.3
9	MTI-SDR1207A-330-T125	330	33.0±20%	53.0(40.9)	4.3	3.4	3.3
10	MTI-SDR1207A-470-T125	470	47.0±20%	76(60.0)	3.9	3.15	2.9
11	MTI-SDR1207A-680-T125	680	68.0±20%	93.5(74.4)	3.1	2.5	2.6
12	MTI-SDR1207A-101-T125	101	100±20%	155(124)	2.6	2.1	2
13	MTI-SDR1207A-151-T125	151	150±20%	206(165)	2.1	1.7	1.8
14	MTI-SDR1207A-221-T125	221	220±20%	322(257)	1.75	1.5	1.45
15	MTI-SDR1207A-331-T125	331	330±20%	398(319)	1.42	1.12	1.09
16	MTI-SDR1207A-471-T125	471	470±20%	695(556)	1.2	0.96	0.97
17	MTI-SDR1207A-681-T125	681	680±20%	1096(877)	0.98	0.79	0.71
18	MTI-SDR1207A-102-T125	102	1000±20%	1387(1110)	0.83	0.66	0.64

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

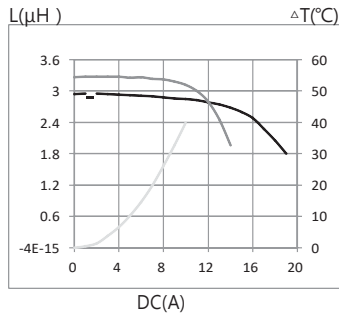
2. Saturation current: The value of D.C current when the inductance decreases to 65% of it's normal value.

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

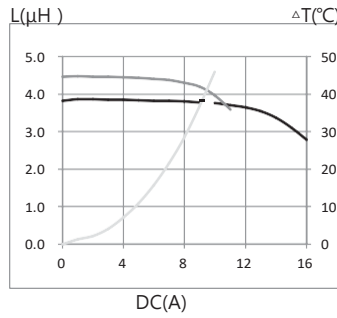
Saturated Current and Temperature Rise Graph.

— L(25°C)
 — L(125°C)
 — ΔT

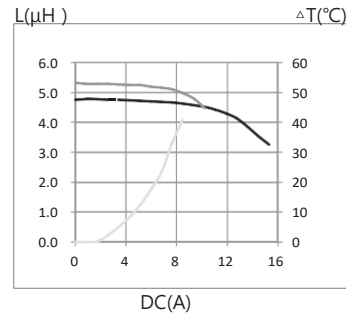
1. MTI-SDR1207A-2R7-T125



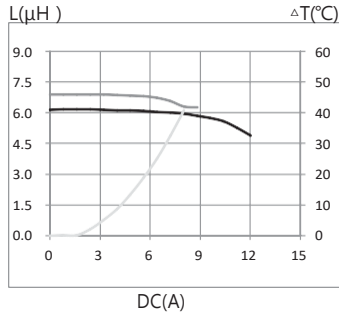
2. MTI-SDR1207A-3R6-T125



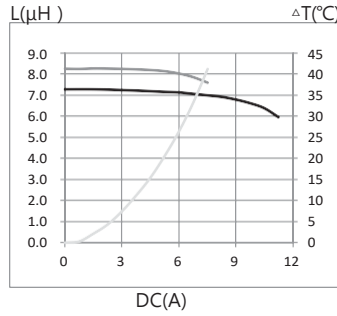
3. MTI-SDR1207A-4R7-T125



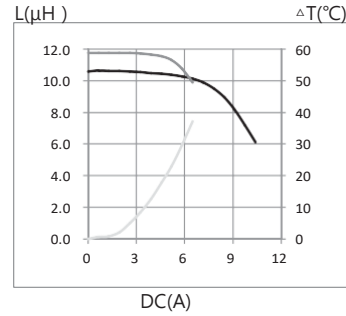
4. MTI-SDR1207A-6R2-T125



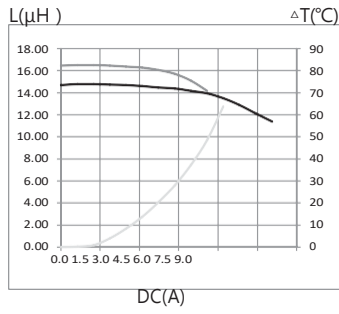
5. MTI-SDR1207A-7R5-T125



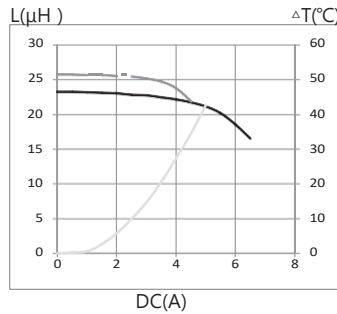
6. MTI-SDR1207A-100-T125



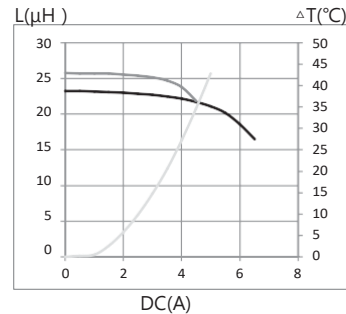
7. MTI-SDR1207A-150-T125



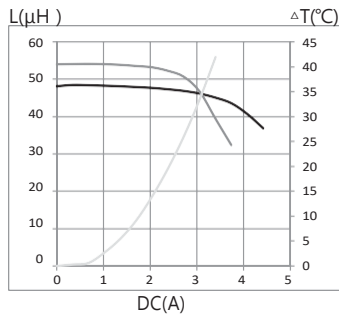
8. MTI-SDR1207A-220-T125



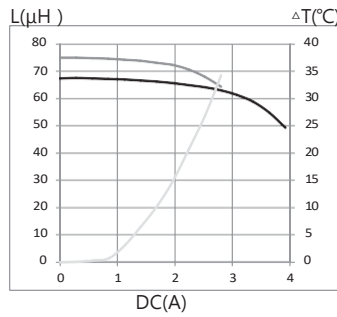
9. MTI-SDR1207A-330-T125



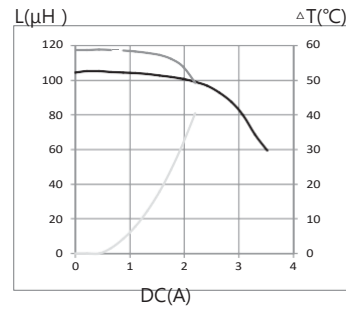
10. MTI-SDR1207A-470-T125



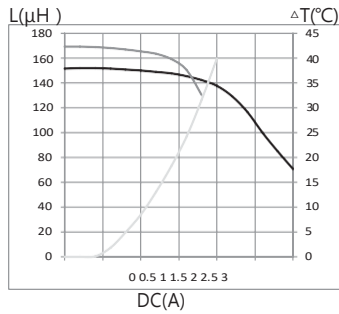
11. MTI-SDR1207A-680-T125



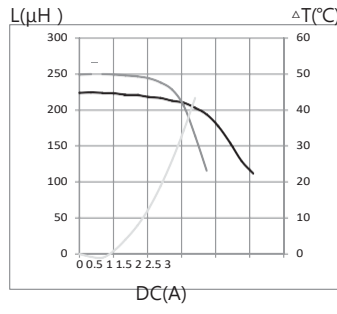
12. MTI-SDR1207A-101-T125



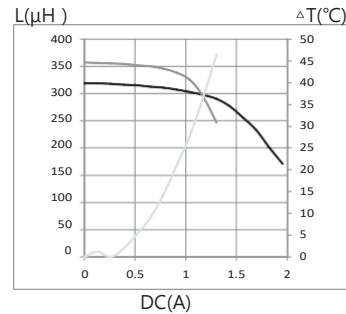
13. MTI-SDR1207A-151-T125



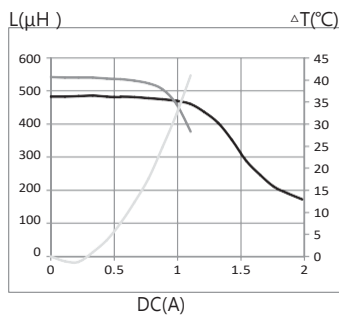
14. MTI-SDR1207A-221-T125



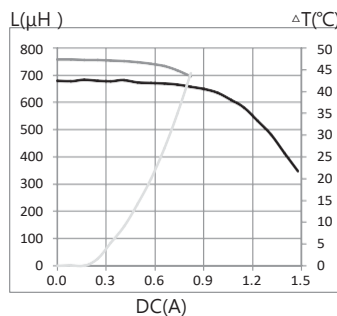
15. MTI-SDR1207A-331-T125



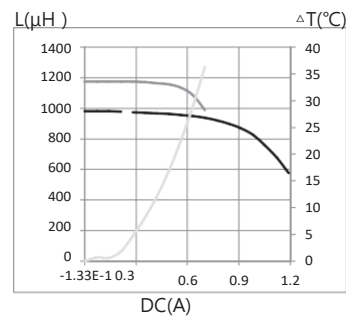
16. MTI-SDR1207A-471-T125



17. MTI-SDR1207A-681-T125



18. MTI-SDR1207A-102-T125



MTI-SDR1207A