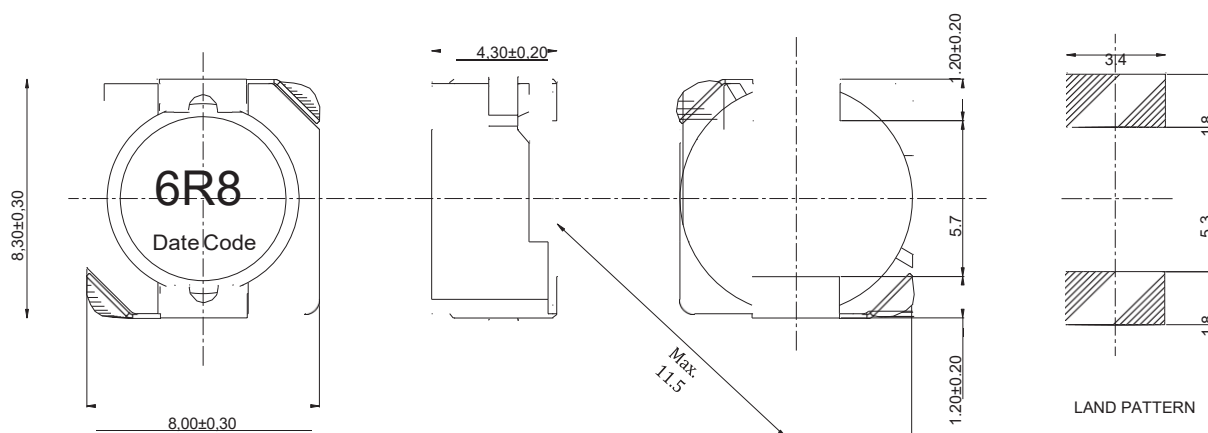


MTI-SDR0843A SERIES

SMD Power Inductor



- Ferrite core construction
- L*W*H :8.6 * 8.3 *4.5 Max.
- High temperature inductor for Automotive application
- Operation temperature range : -40 degree to +125degree
(Including coil's self temp. rise)
- RoHs compliance
- Halogen free available
- Qualified to AEC-Q200



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-SDR0843A-1R2-T125	1R2	1.2 ± 25%	9.70	6.32	8.00	6.00	7.50
2	MTI-SDR0843A-1R8-T125	1R8	1.8 ± 25%	12.1	7.3	7.30	5.80	6.40
3	MTI-SDR0843A-2R6-T125	2R6	2.6 ± 25%	14.0	9.9	7.10	5.60	5.80
4	MTI-SDR0843A-3R6-T125	3R6	3.6 ± 25%	16.3	11.5	6.10	4.70	5.20
5	MTI-SDR0843A-4R7-T125	4R7	4.7 ± 25%	23.5	16.2	5.40	4.20	4.20
6	MTI-SDR0843A-5R6-T125	5R6	5.6 ± 25%	26.9	18.6	4.50	3.50	4.00
7	MTI-SDR0843A-6R8-T125	6R8	6.8 ± 25%	29.8	20.2	4.20	3.30	3.50
8	MTI-SDR0843A-8R2-T125	8R2	8.2 ± 25%	40.8	24.4	4.00	3.20	3.25
9	MTI-SDR0843A-100-T125	100	10 ± 20%	45.0	27.9	3.50	2.75	3.00
10	MTI-SDR0843A-150-T125	150	15 ± 20%	61.8	42.3	2.90	2.30	2.45
11	MTI-SDR0843A-220-T125	220	22 ± 20%	77.6	60.4	2.35	1.85	1.85
12	MTI-SDR0843A-330-T125	330	33 ± 20%	123	82	1.95	1.55	1.55
13	MTI-SDR0843A-470-T125	470	47 ± 20%	186	115	1.60	1.30	1.30
14	MTI-SDR0843A-680-T125	680	68 ± 20%	288	174	1.30	1.05	1.03
15	MTI-SDR0843A-101-T125	101	100 ± 20%	353	272	1.10	0.87	0.95
16	MTI-SDR0843A-151-T125	151	150 ± 20%	575	361	0.91	0.72	0.76
17	MTI-SDR0843A-221-T125	221	220 ± 20%	861	500	0.75	0.60	0.65
18	MTI-SDR0843A-331-T125	331	330 ± 20%	1330	801	0.62	0.50	0.60

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)

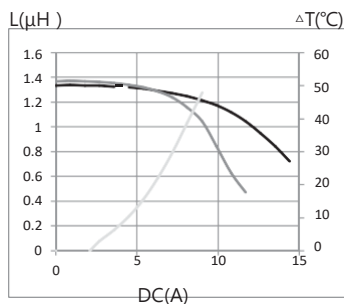


MTI-SDR0843A

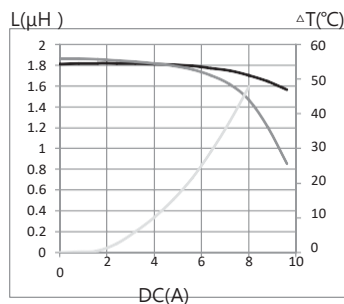
Saturated Current and Temperature Rise Graph.

— L(25°C) — L(125°C) — ΔT

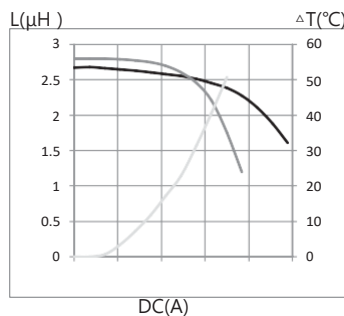
1. MTI-SDR0843A-1R2-T125



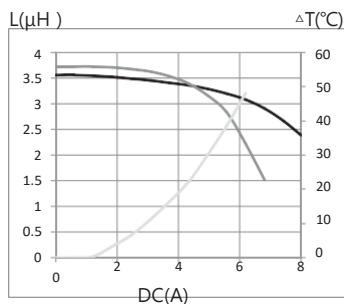
2. MTI-SDR0843A-1R8-T125



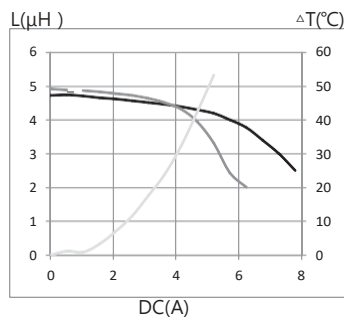
3. MTI-SDR0843A-2R6-T125



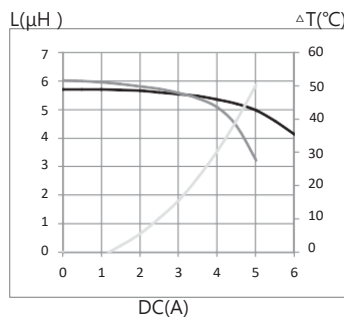
4. MTI-SDR0843A-3R6-T125



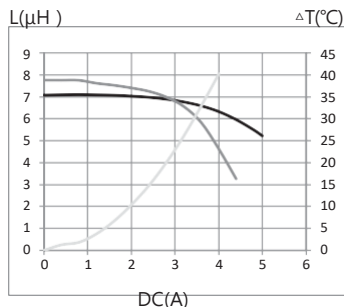
5. MTI-SDR0843A-4R7-T125



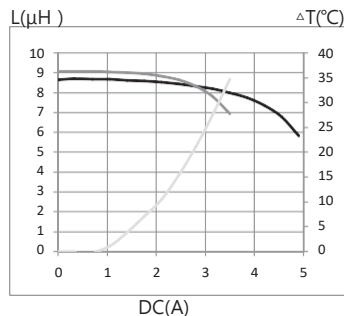
6. MTI-SDR0843A-5R6-T125



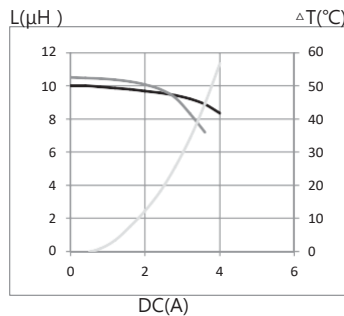
7. MTI-SDR0843A-6R8-T125



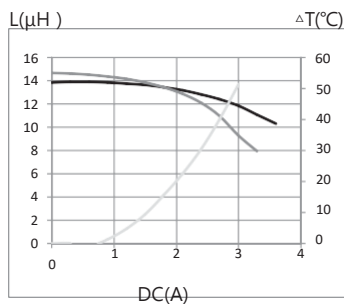
8. MTI-SDR0843A-8R2-T125



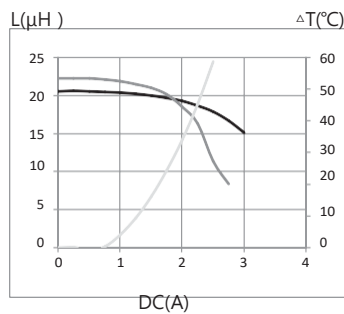
9. MTI-SDR0843A-100-T125



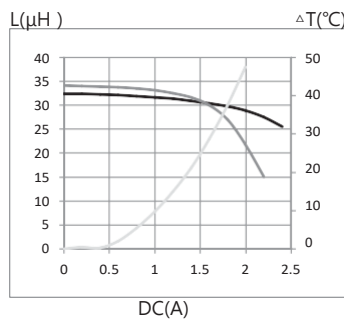
10. MTI-SDR0843A-150-T125



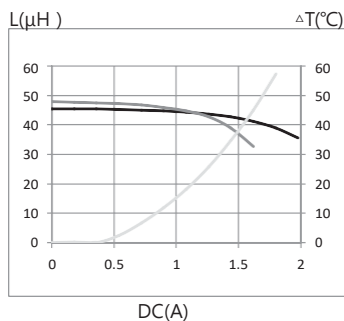
11. MTI-SDR0843A-220-T125



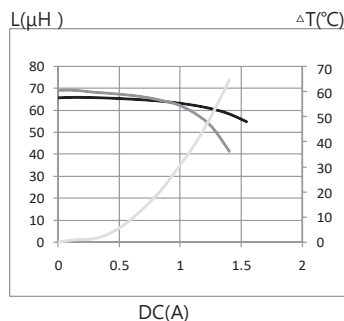
12. MTI-SDR0843A-330-T125



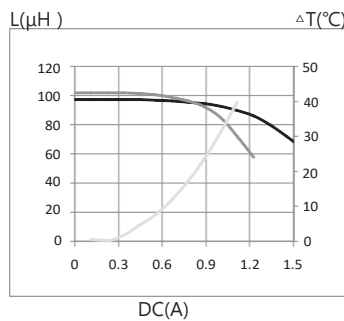
13. MTI-SDR0843A-470-T125



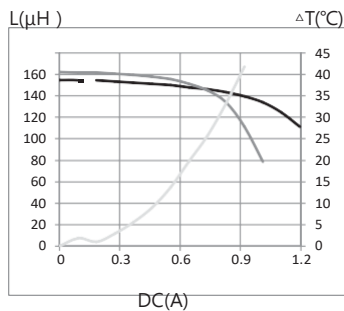
14. MTI-SDR0843A-680-T125



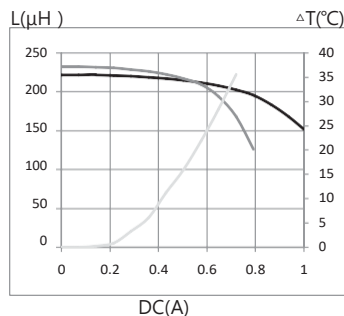
15. MTI-SDR0843A-101-T125



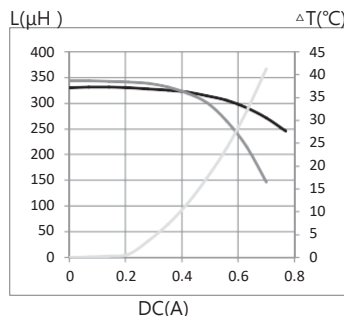
16. MTI-SDR0843A-151-T125



17. MTI-SDR0843A-221-T125



18. MTI-SDR0843A-331-T125



MTI-SDR0843A