High Current Power Inductor - SER1052 Series

Meisongbei



Features

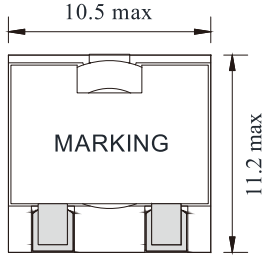
- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Assemblage design, sturdy structure.
- Small volume, high current, low magnetic loss, low ESR, small parasitic capacitance.
- Low power loss, suitable for applications of wide temperature and frequency range.

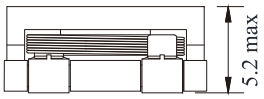
General Specifications

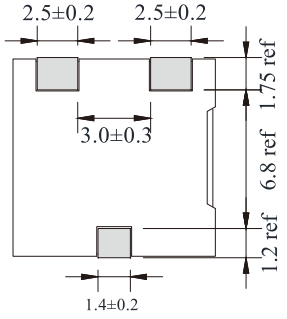
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

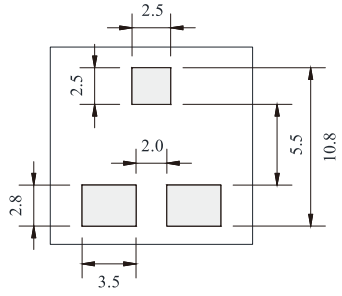
Shape and Dimensions (Unit:mm)

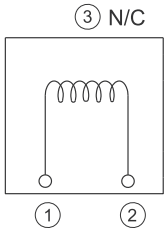






Recommended Layout



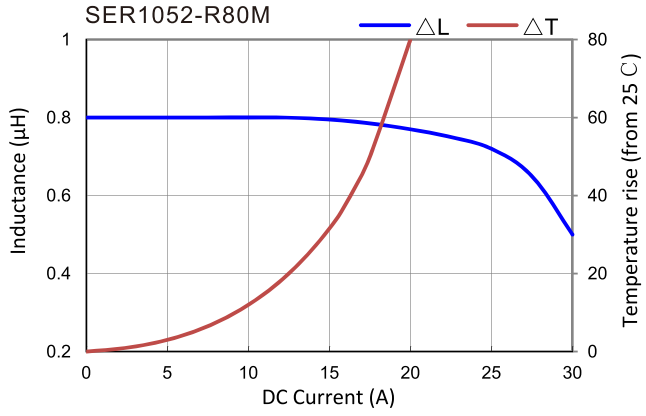


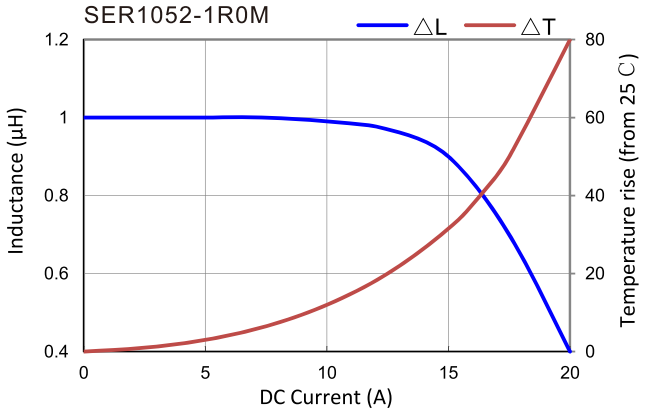
Schematic

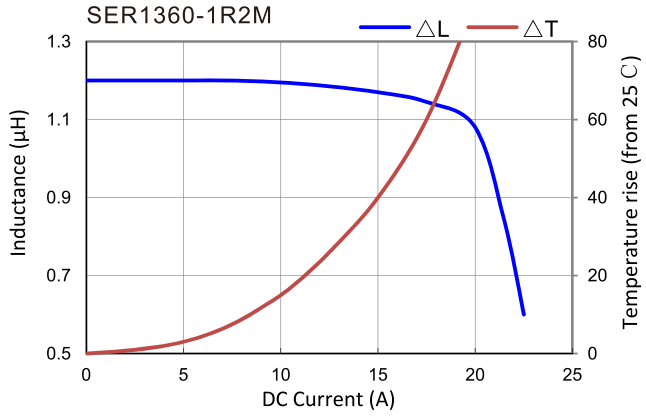
Electrical Characteristics For SER1052 Series @ 25°C

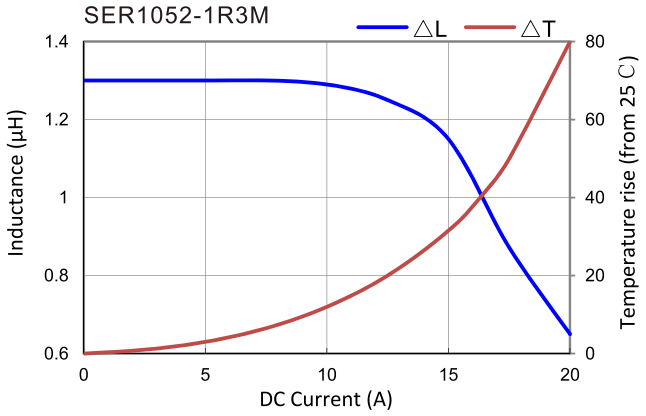
Part Number	Inductance (μH) @100KHz, 0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	Isat (A) Typ. L 30% drop	Irms (A) Typ. 40°C rise
SER1052-R80M	0.8 ±20%	3.2	4.0	25.6	16.3
SER1052-1R0M	1.0 ±20%	3.2	4.0	17.5	16.3
SER1052-1R2M	1.2 ±20%	5.2	6.0	21.3	15.0
SER1052-1R3M	1.3 ±20%	3.2	4.0	17.2	16.3
SER1052-1R5M	1.5 ±20%	3.2	4.0	14.5	16.3
SER1052-1R8M	1.8 ±20%	5.2	6.0	14.3	15.0
SER1052-2R0M	2.0 ±20%	8.1	9.0	16.2	11.5
SER1052-2R2M	2.2 ±20%	3.2	4.0	10.0	16.3
SER1052-2R5M	2.5 ±20%	6.6	7.5	12.1	12.0
SER1052-3R2M	3.2 ±20%	5.2	6	8.5	15.0
SER1052-4R0M	4.0 ±20%	8.1	9	8.8	11.5
SER1052-4R3M	4.3 ±20%	6.6	7.5	7.0	12.0
SER1052-5R7M	5.7 ±20%	8.1	9	6.0	11.5

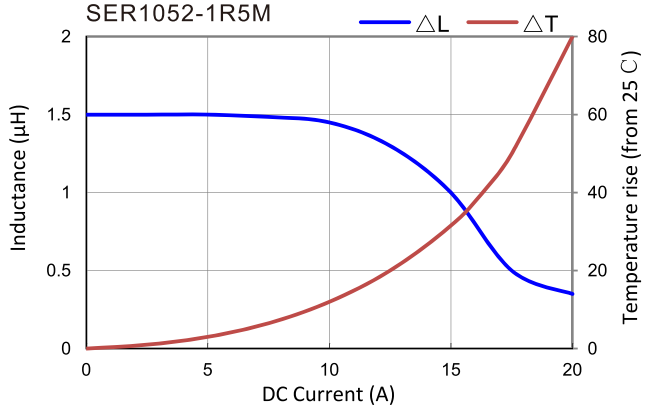
Saturation Current vs Temperature Rise Current Curve

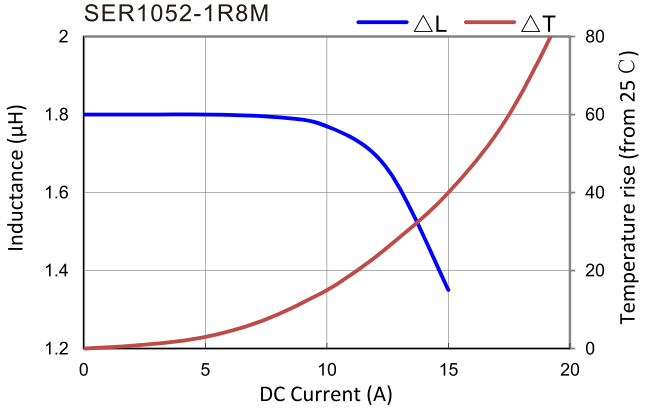


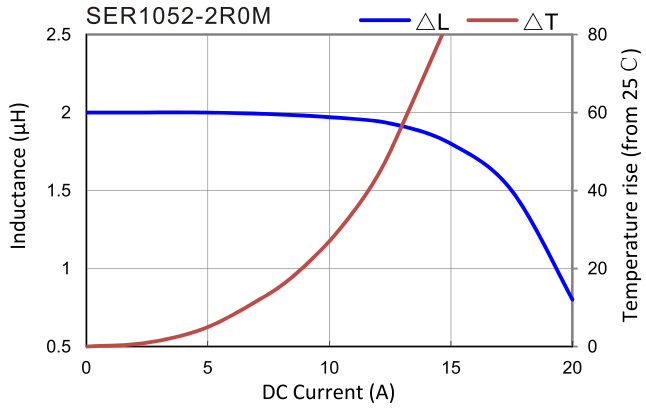


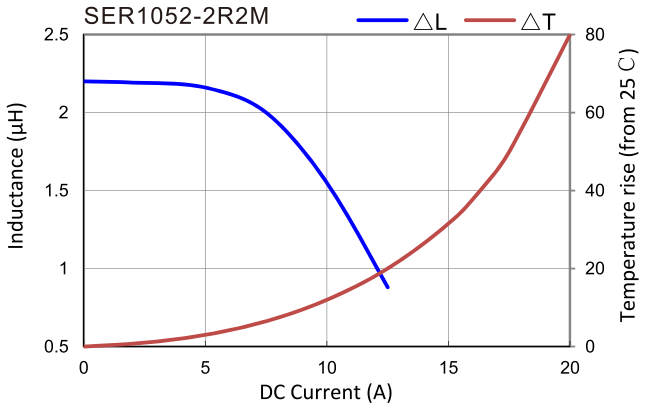












Saturation Current vs Temperature Rise Current Curve

