

**NRSE Series**  
**SMD Shielded Tiny Power Inductor**  
**Size 6045**



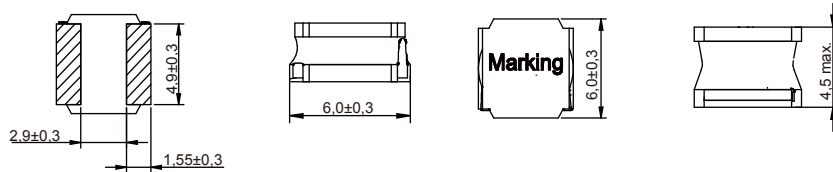
**CHARACTERISTICS**

- Magnetic resin for higher current and semi-magnetically shielded
- Different sizes from 2mm to 8mm in square shape

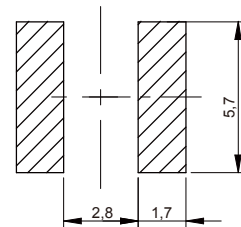
**APPLICATION**

- DC/DC converter
- LC filter

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

Part No	Inductance (μH)	Tolerance	Saturation current (A)	Temperature Rise Current (A)	DCR ±30% (mΩ)
NRSE6045-R56N	0.56	±30%	14.5	6.2	7.5
NRSE6045-1R0N	1.0	±30%	9.0	5.1	10
NRSE6045-1R5N	1.5	±30%	7.5	4.75	12
NRSE6045-1R8N	1.8	±30%	7.5	4.6	13
NRSE6045-2R2N	2.2	±30%	6.5	4.6	13
NRSE6045-3R3N	3.3	±30%	5.3	3.2	20
NRSE6045-3R9N	3.9	±30%	4.9	3.2	20
NRSE6045-4R7N	4.7	±30%	4.5	3.0	24
NRSE6045-5R6N	5.6	±30%	3.7	2.8	31
NRSE6045-6R8M	6.8	±20%	3.3	2.7	33
NRSE6045-8R2M	8.2	±20%	3.2	2.6	45
NRSE6045-100M	10	±20%	3.0	2.5	52
NRSE6045-120M	12	±20%	2.8	2.2	58
NRSE6045-150M	15	±20%	2.5	1.9	77
NRSE6045-180M	18	±20%	2.2	1.75	95
NRSE6045-220M	22	±20%	2.0	1.5	115

Part No	Inductance (μH)	Tolerance	Saturation current (A)	Temperature Rise Current (A)	DCR ±30% (mΩ)
NRSE6045-270M	27	±20%	1.9	1.48	120
NRSE6045-330M	33	±20%	1.6	1.45	150
NRSE6045-390M	39	±20%	1.5	1.25	180
NRSE6045-470M	47	±20%	1.4	1.2	220
NRSE6045-560M	56	±20%	1.3	1.1	260
NRSE6045-680M	68	±20%	1.2	0.9	290
NRSE6045-820M	82	±20%	1.1	0.85	355
NRSE6045-101M	100	±20%	1.0	0.80	430
NRSE6045-121M	120	±20%	0.85	0.75	530
NRSE6045-151M	150	±20%	0.80	0.70	760
NRSE6045-181M	180	±20%	0.75	0.65	845
NRSE6045-221M	220	±20%	0.63	0.55	890

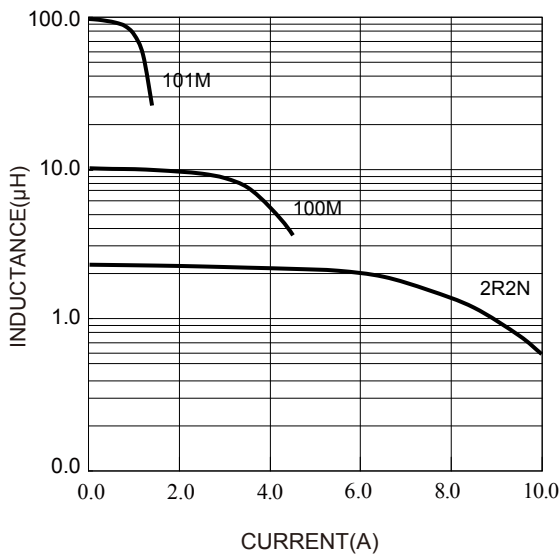
Operating temperature : -40 C ~ +125 C

Temperature rise current: the actual value of DC current when the temperature is ΔT40 C

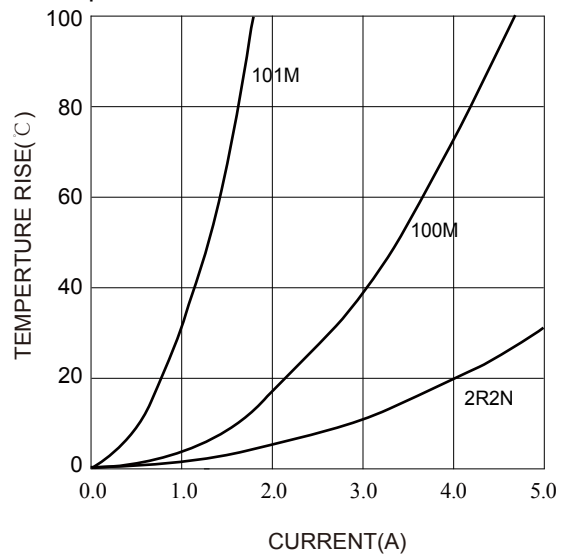
Saturation Current that will cause initial inductance to drop approximately 30%

### Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperature Rise VS. Current Characteristics:



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