

## NRSE Series

### SMD Shielded Tiny Power Inductor

#### Size 6045



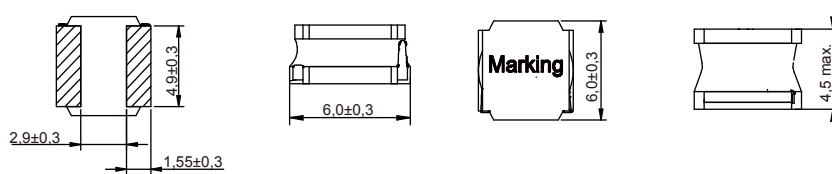
#### CHARACTERISTICS

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

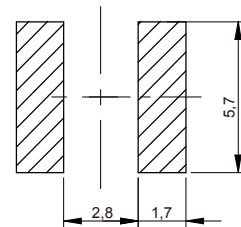
#### APPLICATION

- 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

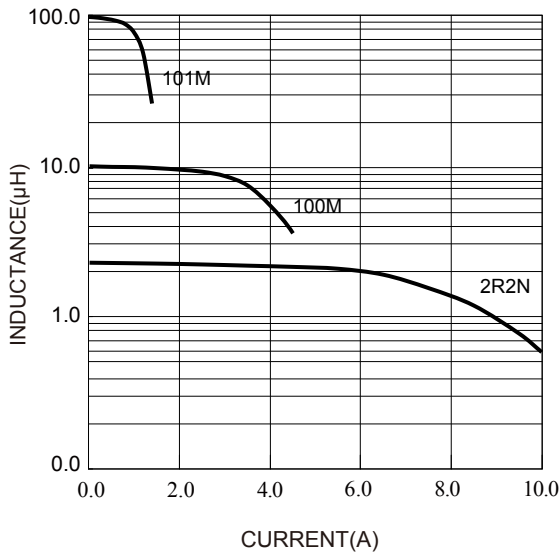
Operating temperature : -40 C ~ +125 C

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

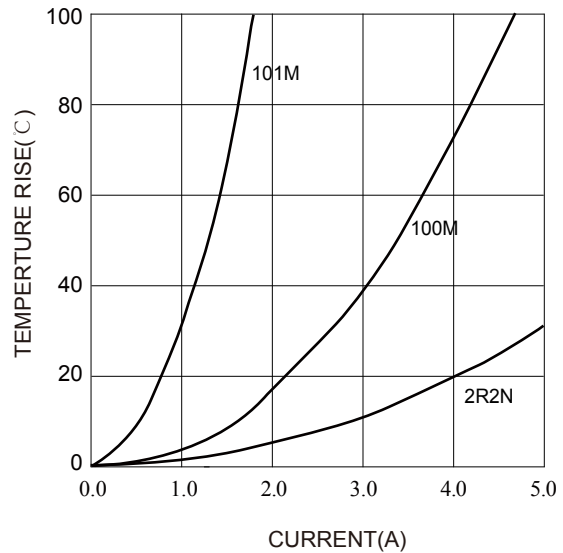
Saturation Current that will cause initial inductance to drop approximately 30%

### Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperature Rise VS. Current Characteristics:



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Fixed Inductors](#) category:*

*Click to view products by [KOHER](#) manufacturer:*

Other Similar products are found below :

[CR32NP-100KC](#) [70F224AI](#) [MHQ1005P10NJ](#) [MHQ1005P1N0S](#) [MHQ1005P2N4S](#) [MHQ1005P3N6S](#) [MHQ1005P5N1S](#) [MHQ1005P8N2J](#)  
[PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-R47-R](#) [HC8-1R2-R](#)  
[HCF1305-3R3-R](#) [1206CS-151XG](#) [RCH664NP-4R7M](#) [RCP1317NP-391L](#) [DH2280-4R7M](#) [DS1608C-106](#) [B10TJ](#) [B82498B3101J000](#) [ELJ-](#)  
[RE27NJF2](#) [1812CS-153XJ](#) [1812CS-183XJ](#) [1812CS-223XJ](#) [1812LS-104XJ](#) [1812LS-105XJ](#) [1812LS-124XJ](#) [1812LS-154XJ](#) [1812LS-223XJ](#)  
[1812LS-224XJ](#) [1812LS-563XJ](#) [1812LS-683XJ](#) [1812LS-824XJ](#) [NIN-FB101JTR110F](#) [NIN-FB471JTR62F](#) [NIN-FC1R5JTR220F](#) [NIN-](#)  
[HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#) [NIN-HDR82JTRF](#) [NIN-HK2N7STRF](#) [NIN-PA150KTR370F](#) [NIN-PB100KTR550F](#)