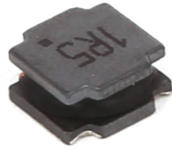


## NRSE Series

### SMD Shielded Tiny Power Inductor

#### Size 4012



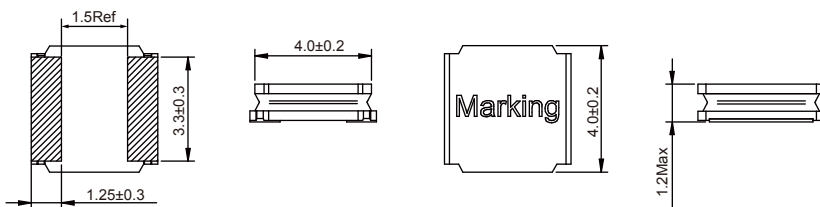
#### CHARACTERISTICS

- Magnetic resin for higher current and semi-magnetically shielded
- Different sizes from 2mm to 8mm in square shape
- Quantity: 4500pcs

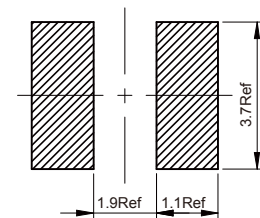
#### APPLICATION

- DC/DC converter
- LC filter

#### Dimensions: [mm]



#### Land Pattern: [mm]



#### Electrical Properties:

Part No	Inductance (µH)	Tolerance	Saturation current Max. (A)	Saturation current Typ. (A)	Temperature Rise Current Max. (A)	Temperature Rise Current Typ. (A)	DCR Max. (Ω)
NRSE4012-R24N	0.24	±30%	4.80	5.60	2.90	3.30	0.025
NRSE4012-1R0N	1.0	±30%	2.80	3.00	2.00	2.30	0.055
NRSE4012-1R5N	1.5	±30%	2.20	2.35	1.80	2.00	0.065
NRSE4012-2R2M	2.2	±20%	1.76	2.00	1.32	1.90	0.100
NRSE4012-3R3M	3.3	±20%	1.35	1.65	1.32	1.90	0.100
NRSE4012-4R7M	4.7	±20%	1.15	1.50	1.00	1.40	0.163
NRSE4012-5R6M	5.6	±20%	1.00	1.60	1.00	1.20	0.185
NRSE4012-6R8M	6.8	±20%	1.15	1.30	0.85	1.10	0.228
NRSE4012-100M	10	±20%	0.85	0.95	0.80	1.00	0.234
NRSE4012-150M	15	±20%	0.68	0.80	0.65	0.80	0.400
NRSE4012-180M	18	±20%	0.60	0.75	0.55	0.80	0.550
NRSE4012-220M	22	±20%	0.50	0.70	0.49	0.75	0.690
NRSE4012-330M	33	±20%	0.50	0.60	0.42	0.52	1.00
NRSE4012-470M	47	±20%	0.35	0.45	0.37	0.50	1.43

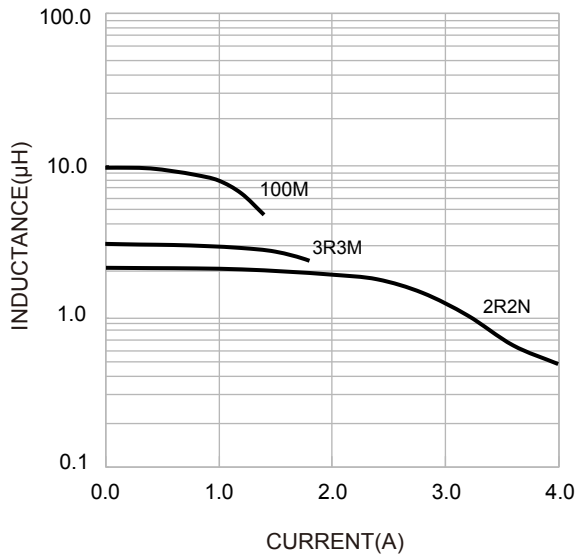
Operating temperature : -40 C ~ +125 C

Temperature rise current: the actual value of DC current when the temperature rise is  $\Delta T40$  C

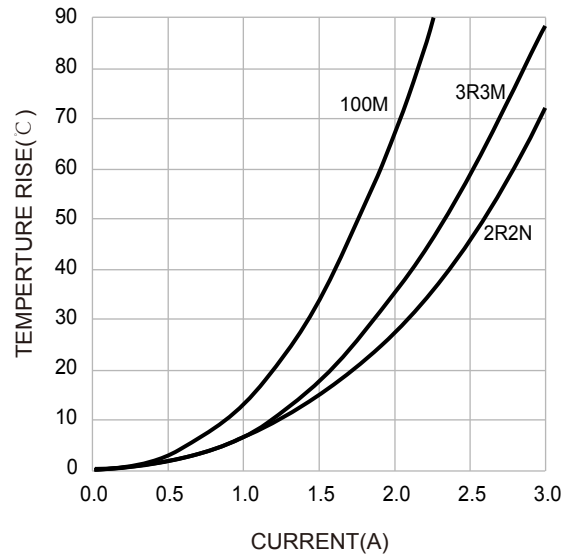
Saturation Current that will cause initial inductance to drop approximately 30%

Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperature Rise VS. Current Characteristics:



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