NRSE Series

SMD Shielded Tiny Power Inductor
Size 5040

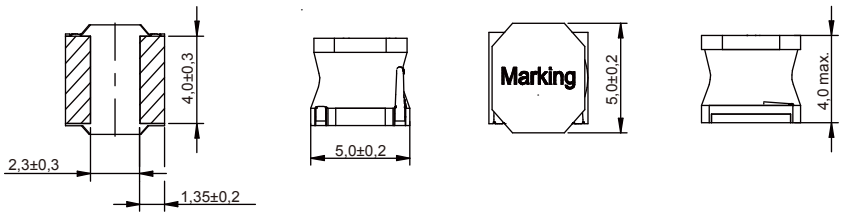
CHARACTERISTICS

- Magnetic resin for higher current and semi-magnetically shielded
- Different sizes from 2mm to 8mm in square shape
- Quantity: 1500pcs

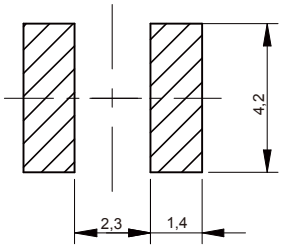
APPLICATION

- 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)
NRSE5040-1R0N	1.0	±30%	7.35	4.9	13
NRSE5040-1R5N	1.5	±30%	6.3	4.3	15
NRSE5040-1R8N	1.8	±30%	6.1	3.9	18
NRSE5040-2R2N	2.2	±30%	4.9	3.8	19
NRSE5040-2R7N	2.7	±30%	4.3	3.6	22
NRSE5040-3R3N	3.3	±30%	3.95	3.4	24
NRSE5040-3R9N	3.9	±30%	3.55	3.2	27
NRSE5040-4R7M	4.7	±20%	3.5	3.0	30
NRSE5040-5R6M	5.6	±20%	3.2	2.8	33
NRSE5040-6R8M	6.8	±20%	2.9	2.5	43
NRSE5040-8R2M	8.2	±20%	3.0	2.3	55
NRSE5040-100M	10	±20%	2.35	2.1	64
NRSE5040-150M	15	±20%	2.0	2.0	86
NRSE5040-220M	22	±20%	1.6	1.5	129
NRSE5040-270M	27	±20%	1.5	1.3	165
NRSE5040-330M	33	±20%	1.3	1.2	188

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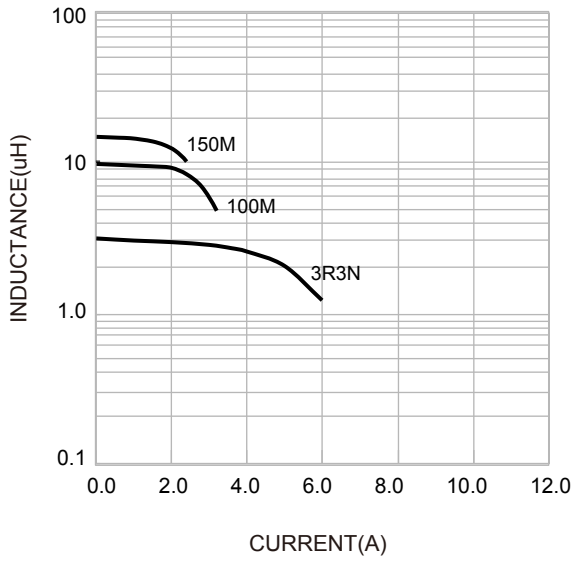
Part No	Inductance (μH)	Tolerance	Saturation current (A)	Temperature Rise Current (A)	DCR ±30% (mΩ)
NRSE5040-390M	39	±20%	1.2	1.1	225
NRSE5040-470M	47	±20%	1.1	1.0	270
NRSE5040-560M	56	±20%	1.0	0.9	375
NRSE5040-680M	68	±20%	0.9	0.8	400
NRSE5040-101M	100	±20%	0.75	0.7	560
NRSE5040-221M	220	±20%	0.45	0.4	1200
NRSE5040-471M	470	±20%	0.40	0.3	2800

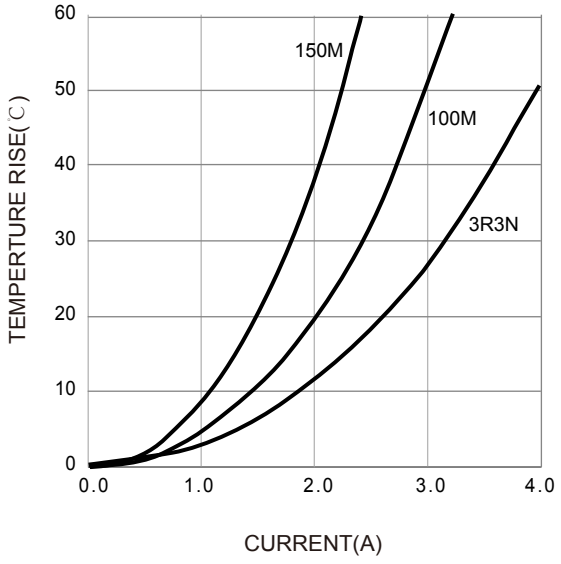
Operating temperature : -40℃ ~ +125℃
Temperature rise current: the actual value of DC current when the temperature rise is ΔT40℃
Saturation Current that will cause initial inductance to drop approximately 30%

Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperture Rise VS. Current Characteristics:



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