NRSE Series

SMD Shielded Tiny Power Inductor
Size 5020

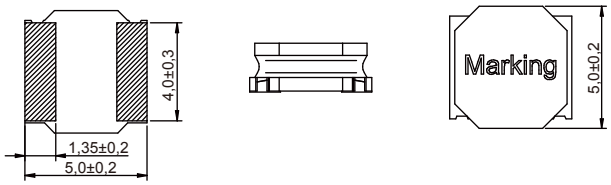
CHARACTERISTICS

- Magnetic resin for higher current and semi-magnetically shielded
- Different sizes from 2mm to 8mm in square shape
- Quantity: 3000pcs

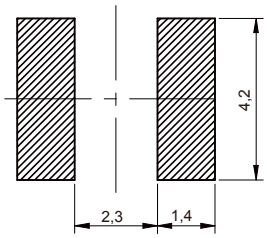
APPLICATION

- 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)
NRSE5020-R22N	0.22	±30%	6	5	11
NRSE5020-R24N	0.24	±30%	6	5	11
NRSE5020-R33N	0.33	±30%	7.5	3.95	15
NRSE5020-R47N	0.47	±30%	4.85	3.95	15
NRSE5020-1R0N	1.0	±30%	4.33	3.7	20
NRSE5020-1R2N	1.2	±30%	4.2	3.5	25
NRSE5020-1R5N	1.5	±30%	4.1	3.2	26
NRSE5020-1R8N	1.8	±30%	4.00	3	30
NRSE5020-2R2N	2.2	±30%	3.85	2.9	38
NRSE5020-2R7N	2.7	±30%	3.5	2.4	45
NRSE5020-3R3N	3.3	±30%	3.25	2.4	46
NRSE5020-3R6N	3.6	±30%	2.9	2.3	48
NRSE5020-3R9N	3.9	±30%	2.9	2.15	50
NRSE5020-4R7M	4.7	±20%	2.4	2.05	65
NRSE5020-5R6M	5.6	±20%	2.3	1.85	72
NRSE5020-6R8M	6.8	±20%	2.1	1.7	92
NRSE5020-8R2M	8.2	±20%	1.9	1.6	100

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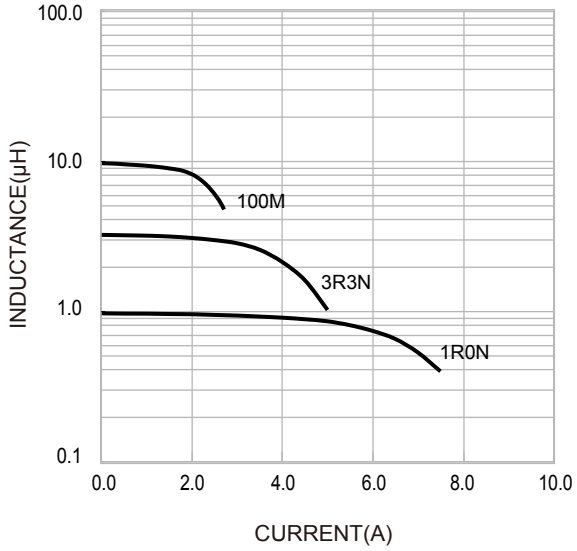
Part No	Inductance (μH)	Tolerance	Saturation current (A)	Temperature Rise Current (A)	DCR ±30% (mΩ)
NRSE5020-100M	10	±20%	1.8	1.5	125
NRSE5020-150M	15	±20%	1.44	1.25	180
NRSE5020-220M	22	±20%	1.18	1.05	250
NRSE5020-270M	27	±20%	1.1	1	300
NRSE5020-330M	33	±20%	0.97	0.83	370
NRSE5020-470M	47	±20%	0.81	0.7	560
NRSE5020-680M	68	±20%	0.70	0.53	850
NRSE5020-820M	82	±20%	0.65	0.5	950
NRSE5020-101M	100	±20%	0.57	0.43	1100
NRSE5020-151M	150	±20%	0.41	0.4	1500
NRSE5020-221M	220	±20%	0.35	0.3	2230

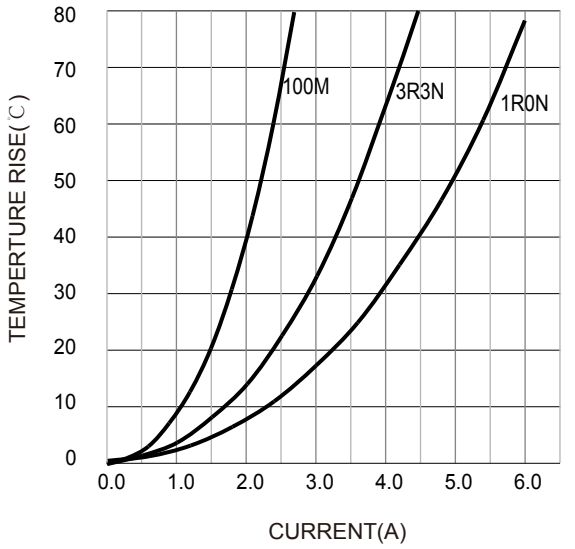
Operating temperature : -40℃ ~ +125℃
Temperature rise current: the actual value of DC current when the temperature rise is ΔT40℃
Saturation Current that will cause initial inductance to drop approximately 30%

Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperture Rise VS. Current Characteristics:



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