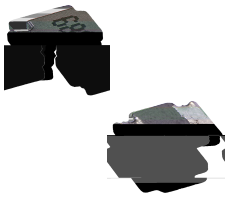
NRSE Series

SMD Shielded Tiny Power Inductor
Size 8040



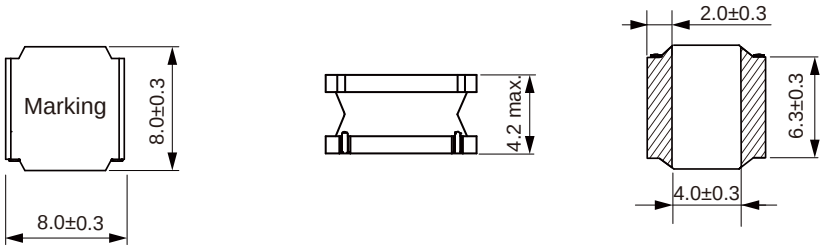
CHARACTERISTICS

- Magne c resin for higher current and semi-magne cally shielded
- Quan ty: 1000pcs

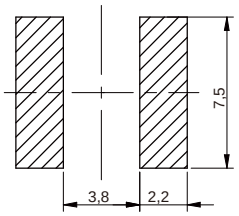
APPLICATION

- DC/DC converter
- LC filter

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

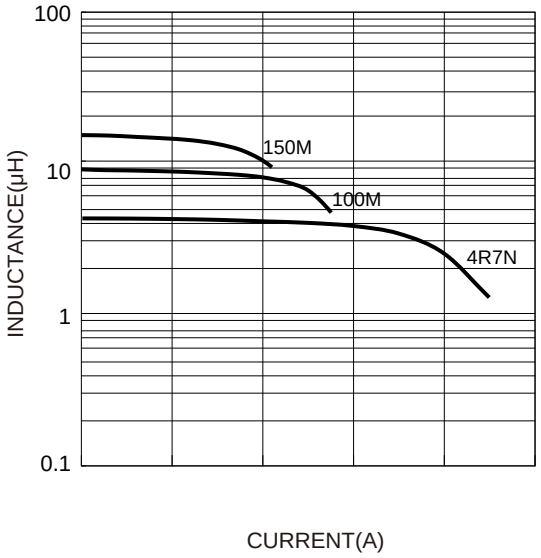
Part No	(μH)	Tolerance	Saturation (A)	Temperature Rise (A)	(mΩ)	Condition
NRSE8040-R56N	0.56	±30%	11.5	7.60		1MHz/0.25V
NRSE8040-1R0N	1.0	±30%	9.85	6.30		100KHz/0.25V
NRSE8040-1R5N	1.5	±30%	8.15		10	100KHz/0.25V
NRSE8040-2R2N		±30%	7.10	5.15	12	100KHz/0.25V
NRSE8040-3R3N		±30%	6.50	4.40	17	100KHz/0.25V
NRSE8040-4R7N		±30%	5.90	4.00	20	100KHz/0.25V
NRSE8040-5R6N		±30%	5.50	3.80		100KHz/0.25V
NRSE8040-6R8M		±20%		3.60		100KHz/0.25V
NRSE8040-8R2M		±20%	4.20	3.40		100KHz/0.25V
NRSE8040-100M	10	±20%	3.60	3.10		100KHz/0.25V
NRSE8040-120M	12	±20%	3.30	2.80		100KHz/0.25V
NRSE8040-150M	15	±20%	2.95	2.50		100KHz/0.25V
NRSE8040-180M	18	±20%	2.70	2.40		100KHz/0.25V
NRSE8040-220M		±20%	2.40	2.00		100KHz/0.25V
NRSE8040-270M		±20%	2.15	1.90	80	100KHz/0.25V
NRSE8040-330M		±20%	2.05	1.70	100	100KHz/0.25V
NRSE8040-470M		±20%	1.75	1.50	158	100KHz/0.25V
NRSE8040-560M		±20%	1.55	1.40	160	100KHz/0.25V

Part No	(μH)	Tolerance	Saturation (A)	Temperature Rise (A)	(mΩ)	Condition
NRSE8040-680M		±20%	1.45	1.20	196	100KHz/0.25V
NRSE8040-820M		±20%	1.30	1.10		100KHz/0.25V
NRSE8040-101M	100	±20%	1.15	1.00	295	100KHz/0.25V
NRSE8040-121M	120	±20%	1.10	0.90	380	100KHz/0.25V
NRSE8040-151M	150	±20%	1.10	0.80	470	100KHz/0.25V
NRSE8040-171M	170	±20%	0.95	0.75		100KHz/0.25V
NRSE8040-181M	180	±20%	0.90	0.75	610	100KHz/0.25V
NRSE8040-221M	220	±20%	0.85	0.70	660	100KHz/0.25V
NRSE8040-331M	330	±20%	0.68	0.55	970	100KHz/0.25V
NRSE8040-471M	470	±20%	0.60	0.48	1400	100KHz/0.25V
NRSE8040-561M	560	±20%	0.59	0.46	1650	100KHz/0.25V
NRSE8040-681M	680	±20%	0.50	0.45	1750	100KHz/0.25V
NRSE8040-102M	1000	±20%	0.40	0.35	2900	100KHz/0.25V

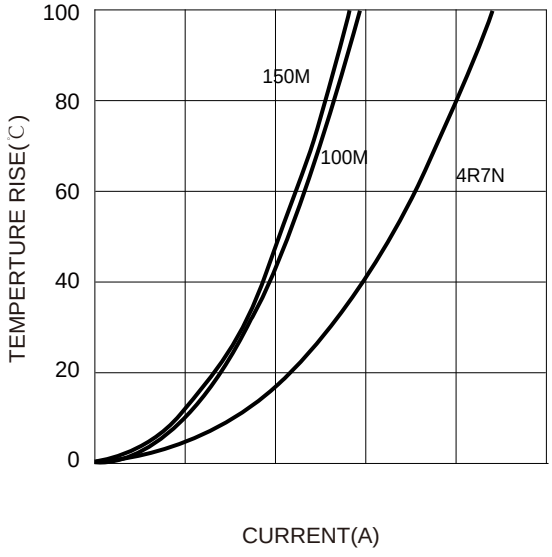
Opera ng temperature : -40℃ ~ +125℃
Temperature rise current: the actual value of DC current when the temperature rise is ΔT40℃
Satura on Current that will cause ini al inductance to drop approximately 30%

Typical Electrical Characteristics:

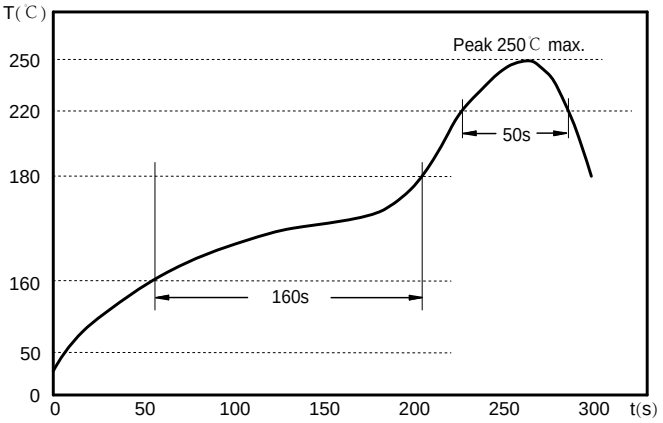
Inductance VS. Current Characteristics:



Temperture Rise VS. Current Characteristics:



Soldering Reflow:



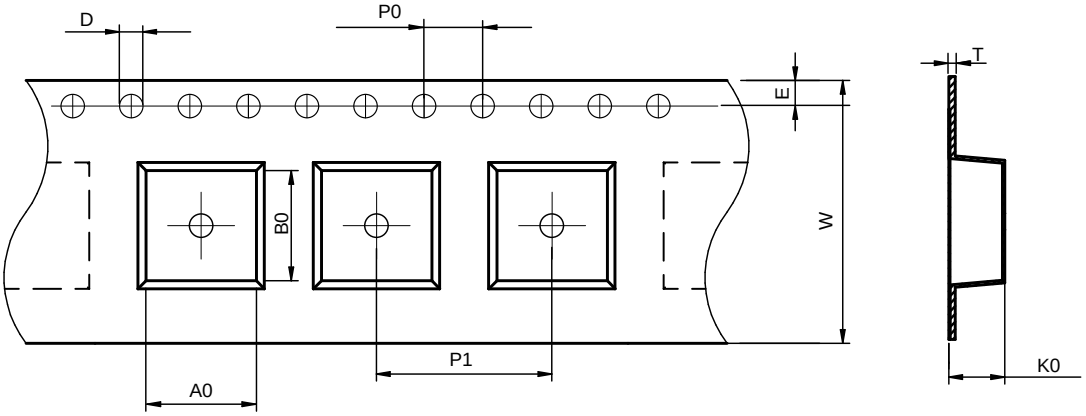
Preheat condition: 160 ~180℃/ 160 sec.

Allowed time above 220℃: 50 sec.

Max temperature: 250℃.

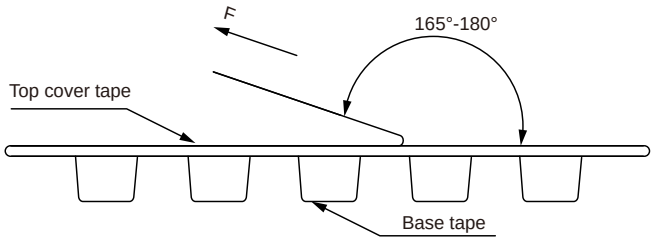
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
NRSE8040	9.40±0.1	9.40±0.1	1.50±0.1	4.00±0.1	12.00±0.1	16.00±0.3	4.40±0.1	1.75±0.1	0.40±0.05

Peel force of top cover tape:

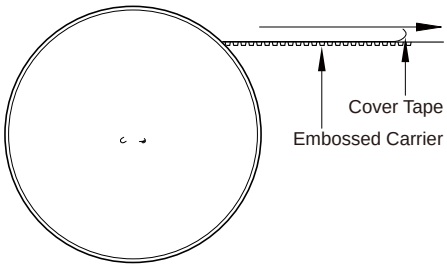


The peel force of top cover tape shall be between 0.03 to 0.98 N

Product Marking:

Marking	Printing (Inductance)

Reel Dimension：[mm]



Packaging Quantity: