

NRSE Series

SMD Shielded Tiny Power Inductor

Size 5040

CHARACTERISTICS

- Magnetic resin for higher current and semi-magnetically shielded
- Quantity: 1500pcs

APPLICATION

- DC/DC converter
- LC filter

Dimensions: [mm]

Land Pattern: [mm]



Electrical Properties:

Inductance		DC Resistance		Q Factor		Temperature Coefficient		Operating Temperature		Storage Temperature	
Inductance	DC Resistance	Q Factor	Temperature Coefficient	Operating Temperature	Storage Temperature	Inductance	DC Resistance	Q Factor	Temperature Coefficient	Operating Temperature	Storage Temperature
4.9	0.4	30	303	90	3	80	3	40	3	20	2
0.02	8	2	50	2	30	2	10	2	0	1	50
1	50	1	30	1	20	1	30	1	15	1	30
13	0.15	0.18	0.19	0.22	0.24	0.27	0.30	0.33	0.43	0.55	0.64
0.086	0.12	0.19	0.165	0.188	0.356	0.306	0.104	0.904	0.303		

			(A)	Temperature (A)	DCR ±30%
NRSE5040-390M	39.0	±20%	1.20	1.10	225
NRSE5040-470M	47.0	±20%	1.10	1.00	270
NRSE5040-560M	56.0	±20%	1.00	0.90	375
NRSE5040-680M	68.0	±20%	0.90	0.80	400
NRSE5040-101M	100	±20%	0.75	0.70	560
NRSE5040-221M	220	±20%	0.45	0.40	1200
NRSE5040-471M	470	±20%	0.40	0.30	2800

Operating temperature : -40 °C ~ +125 °C

Temperature rise current: the actual value of DC current when the temperature rise is $\Delta T 40^{\circ}\text{C}$

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

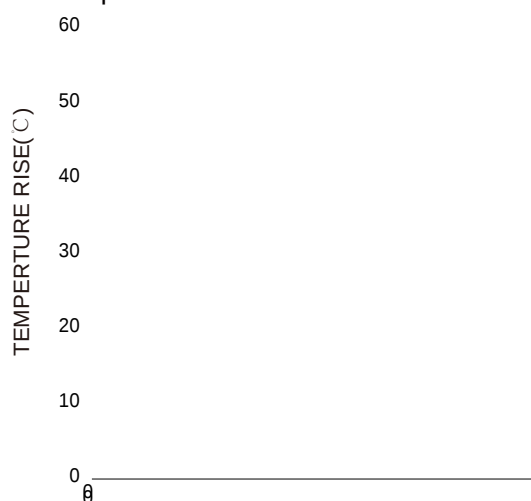
Typical Electrical Characteristics:

Inductance VS. Current Characteristics:

INDUCTANCE(μH)

CURRENT(A)

Temperature Rise VS. Current Characteristics:



CURRENT(A)