



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 (μH)															
4.9	9.0	4.3	9.0	3.0	3.8	6.0	3.4	0.3	2.0	3.0	0.02	2.8	0.2	5.0	2.0
2.0	2.8	1.0	2.0	1.0	1.5	0.1	3.0	1.0	2.0	1.3	0.15	0.18	0.19	0.22	0.24
0.27	0.30	0.33	0.43	0.55	0.64	0.86	0.012	9.1	6.5	1.8	8.7	3.5	6.3	0.6	1.0
4.0	4.3	9.0	4.3	3.0	3.8	6.0	3.4	0.3	2.0	3.0	0.02	2.8	0.2	5.0	2.0

Part No		Tolerance	Satura on Current (A)	Temperature Rise Current (A)	DCR $\pm 30\%$ (m Ω)
NRSE5040-390M	39.0	$\pm 20\%$	1.20	1.10	225
NRSE5040-470M	47.0	$\pm 20\%$	1.10	1.00	270
NRSE5040-560M	56.0	$\pm 20\%$	1.00	0.90	375
NRSE5040-680M	68.0	$\pm 20\%$	0.90	0.80	400
NRSE5040-101M	100	$\pm 20\%$	0.75	0.70	560
NRSE5040-221M	220	$\pm 20\%$	0.45	0.40	1200
NRSE5040-471M	470	$\pm 20\%$	0.40	0.30	2800

Operating temperature : $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

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

Satura on Current that will cause ini al inductance to drop approximately 30%

Typical Electrical Characteristics:

Inductance VS. Current Characteristics:

INDUCTANCE(μH)

CURRENT(A)

Temperature Rise VS. Current Characteristics:

