

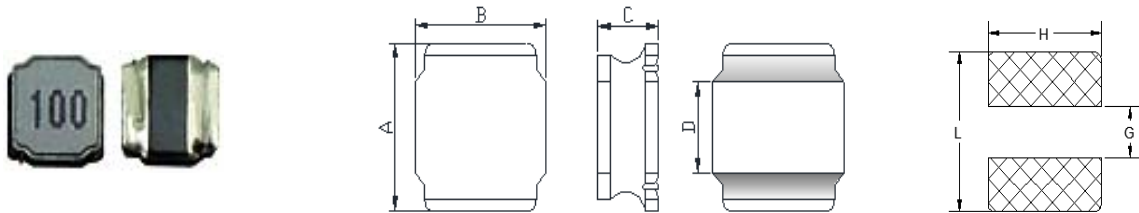
Features

- Magnetic-resin sealed construction reduces buzz noise to ultra-low levels.
- Metalization on ferrit core results in excellent shock resistance and damage-free durability
- Closed magnetic circuit design reduces leakage flux Electro Magnetic Interference (EMI)
- Take up less PCS real estate and save more power.

Applications

- Mobile devices, Cameras, Notebook PCs, Destop Computers, Servers and graphic cards.
- Flat-screen TVs, Blue-ray DISC recorders, Set top boxes and LED lightings.
- Portable gaming devices, personal navigation systems, Personal Multimedia devices.

Shapes and Dimensions



Packing Q'ty : 1,000 pcs/reel

Type	A	B	C	D	L	G	H
SDNR6045	6.0 ± 0.3	6.0 ± 0.3	4.5 max.	4.9 ± 0.2	6.5 ref.	2.8 ref.	5.7 ref.

Electrical Characteristics

Part No.	Inductance (µH)	Measuring Freq. (KHz)	D.C.R ± 20% (Ω)	Isat. (A)	Irms. (A)	SRF min. (MHz)
SDNR6045-R47NC	0.47 ± 30%	100	0.006	15.00	6.50	155
SDNR6045-R56NC	0.56 ± 30%	100	0.006	15.00	6.50	142
SDNR6045-R68NC	0.68 ± 30%	100	0.006	11.00	5.90	140
SDNR6045-R82NC	0.82 ± 30%	100	0.008	10.35	5.70	140
SDNR6045-1R0NC	1.0 ± 30%	100	0.010	9.85	5.50	100
SDNR6045-1R2NC	1.2 ± 30%	100	0.010	8.35	5.40	100
SDNR6045-1R3NC	1.3 ± 30%	100	0.011	8.35	5.40	100
SDNR6045-1R5NC	1.5 ± 30%	100	0.012	8.00	4.95	74
SDNR6045-1R8NC	1.8 ± 30%	100	0.012	7.60	4.95	65
SDNR6045-2R2NC	2.2 ± 30%	100	0.014	6.75	4.60	60
SDNR6045-2R3NC	2.3 ± 30%	100	0.015	6.00	4.50	52
SDNR6045-2R7NC	2.7 ± 30%	100	0.020	5.75	4.30	38
SDNR6045-3R0NC	3.0 ± 30%	100	0.021	5.60	3.80	35
SDNR6045-3R3NC	3.3 ± 30%	100	0.021	5.30	3.70	32
SDNR6045-3R6NC	3.6 ± 30%	100	0.021	5.25	3.70	28
SDNR6045-4R3MC	4.3 ± 20%	100	0.021	4.97	3.50	25
SDNR6045-4R5MC	4.5 ± 20%	100	0.023	4.97	3.30	24
SDNR6045-4R7MC	4.7 ± 20%	100	0.026	4.45	3.30	24
SDNR6045-5R1MC	5.1 ± 20%	100	0.026	4.40	3.30	23
SDNR6045-5R6MC	5.6 ± 20%	100	0.029	4.40	3.15	23

NOTES:

Isat : DC current at which the inductance drops approximately 35% from its value without current.

Irms : DC current that causes the temperature rise (ΔT=40°C) from 20°C ambient

Electrical Characteristics

Part No.	Inductance (μ H)	Measuring Freq. (KHz)	D.C.R \pm 20% (Ω)	Isat. (A)	Irms. (A)	SRF min. (MHz)
SDNR6045-6R2MC	6.2 \pm 20%	100	0.031	4.30	3.00	22
SDNR6045-6R3MC	6.3 \pm 20%	100	0.031	4.20	3.00	21
SDNR6045-6R8MC	6.8 \pm 20%	100	0.031	3.90	3.00	20
SDNR6045-7R5MC	7.5 \pm 20%	100	0.034	3.80	2.90	18
SDNR6045-8R2MC	8.2 \pm 20%	100	0.043	3.50	2.60	17
SDNR6045-9R1MC	9.1 \pm 20%	100	0.043	3.35	2.60	17
SDNR6045-100MC	10 \pm 20%	100	0.048	3.20	2.45	15
SDNR6045-120MC	12 \pm 20%	100	0.058	2.80	2.20	13
SDNR6045-150MC	15 \pm 20%	100	0.068	2.50	0.05	12
SDNR6045-180MC	18 \pm 20%	100	0.081	2.20	1.85	10
SDNR6045-220MC	22 \pm 20%	100	0.089	2.05	1.80	10
SDNR6045-270MC	27 \pm 20%	100	0.102	1.90	1.70	9.2
SDNR6045-300MC	30 \pm 20%	100	0.132	1.80	1.65	7.5
SDNR6045-330MC	33 \pm 20%	100	0.137	1.80	1.65	7.4
SDNR6045-360MC	36 \pm 20%	100	0.173	1.80	1.63	7.4
SDNR6045-390MC	39 \pm 20%	100	0.180	1.80	1.62	7.2
SDNR6045-430MC	43 \pm 20%	100	0.200	1.70	1.50	7.2
SDNR6045-470MC	47 \pm 20%	100	0.200	1.40	1.40	7.2
SDNR6045-510MC	51 \pm 20%	100	0.207	1.40	1.40	7.0
SDNR6045-560MC	56 \pm 20%	100	0.287	1.30	1.40	6.4
SDNR6045-620MC	62 \pm 20%	100	0.306	1.25	1.35	6.4
SDNR6045-680MC	68 \pm 20%	100	0.376	1.20	1.30	6.4
SDNR6045-750MC	75 \pm 20%	100	0.397	1.15	1.20	5.0
SDNR6045-820MC	82 \pm 20%	100	0.443	1.05	1.10	4.9
SDNR6045-910MC	91 \pm 20%	100	0.467	1.00	1.10	4.9
SDNR6045-101MC	100 \pm 20%	100	0.563	0.95	1.00	4.2
SDNR6045-121MC	120 \pm 20%	100	0.629	0.85	0.94	4.2
SDNR6045-151MC	150 \pm 20%	100	0.754	0.80	0.88	4.2
SDNR6045-221MC	220 \pm 20%	100	1.084	0.70	0.77	3.5
SDNR6045-331MC	330 \pm 20%	100	1.651	0.57	0.63	2.8
SDNR6045-471MC	470 \pm 20%	100	2.340	0.50	0.56	2.0
SDNR6045-681MC	680 \pm 20%	100	3.250	0.42	0.46	1.7
SDNR6045-102MC	1,000 \pm 20%	100	5.850	0.30	0.35	0.8
SDNR6045-152MC	1,500 \pm 20%	100	8.450	0.24	0.27	0.5

NOTES:

Isat : DC current at which the inductance drops approximately 35% from its value without current.

Irms : DC current that causes the temperature rise ($\Delta T=40^{\circ}C$) from $20^{\circ}C$ ambient