

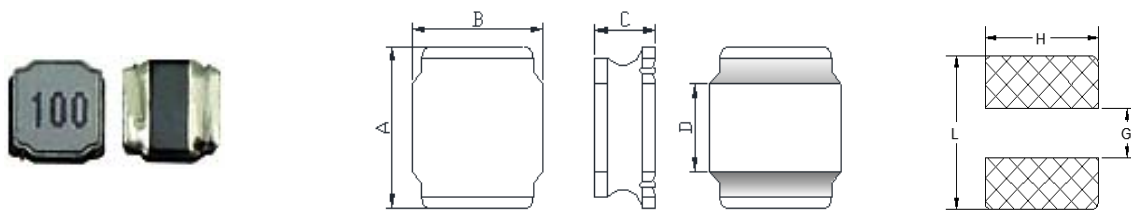
### Features

- Magnetic-resin sealed construction reduces buzz noise to ultra-low levels.
- Metalization on ferrite 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, Desktop 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
SDNR8040	8.0 ± 0.3	8.0 ± 0.3	4.0 max.	6.3 ± 0.2	9.0 ref.	3.8 ref.	7.5 ref.

### Electrical Characteristics

Part No.	Inductance (μH)	Measuring Freq. (KHz)	D.C.R ± 20% (Ω)	Isat. (A)	Irms. (A)	SRF min. (MHz)
SDNR8040-R82NC	0.82 ± 30%	100	0.008	13.80	6.30	94
SDNR8040-1R0NC	1.0 ± 30%	100	0.008	10.00	6.30	89
SDNR8040-1R2NC	1.2 ± 30%	100	0.010	9.85	5.65	67
SDNR8040-1R5NC	1.5 ± 30%	100	0.010	9.25	5.65	59
SDNR8040-2R0NC	2.0 ± 30%	100	0.012	8.15	5.15	43
SDNR8040-2R2NC	2.2 ± 30%	100	0.012	7.52	5.15	41
SDNR8040-3R0NC	3.0 ± 30%	100	0.014	6.50	4.70	32
SDNR8040-3R3NC	3.3 ± 30%	100	0.017	6.10	4.40	30
SDNR8040-3R6NC	3.6 ± 30%	100	0.017	5.90	4.35	27
SDNR8040-3R9NC	3.9 ± 30%	100	0.017	5.75	4.35	26
SDNR8040-4R7NC	4.7 ± 30%	100	0.019	4.90	4.10	24
SDNR8040-5R1NC	5.1 ± 30%	100	0.019	4.70	4.05	24
SDNR8040-5R6NC	5.6 ± 30%	100	0.021	4.55	3.85	20
SDNR8040-6R2NC	6.2 ± 30%	100	0.021	4.50	3.85	20
SDNR8040-6R8MC	6.8 ± 20%	100	0.024	4.35	3.60	20
SDNR8040-8R2MC	8.2 ± 20%	100	0.026	4.20	3.45	17
SDNR8040-100MC	10 ± 20%	100	0.029	3.60	3.30	15
SDNR8040-120MC	12 ± 20%	100	0.041	3.50	2.80	13
SDNR8040-150MC	15 ± 20%	100	0.047	2.95	2.60	12
SDNR8040-180MC	18 ± 20%	100	0.053	2.70	2.40	11
SDNR8040-220MC	22 ± 20%	100	0.069	2.40	2.10	9.5
SDNR8040-270MC	27 ± 20%	100	0.078	2.15	2.00	9.2
SDNR8040-330MC	33 ± 20%	100	0.097	2.05	1.80	7.8

#### 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 ( $\mu$ H)	Measuring Freq. (KHz)	D.C.R $\pm$ 20% ( $\Omega$ )	Isat. (A)	Irms. (A)	SRF min. (MHz)
SDNR8040-360MC	36 $\pm$ 20%	100	0.102	2.00	1.75	7.8
SDNR8040-390MC	39 $\pm$ 20%	100	0.107	1.95	1.70	7.8
SDNR8040-430MC	43 $\pm$ 20%	100	0.113	1.90	1.65	7.8
SDNR8040-470MC	47 $\pm$ 20%	100	0.136	1.75	1.55	6.4
SDNR8040-510MC	51 $\pm$ 20%	100	0.142	1.70	1.50	6.4
SDNR8040-560MC	56 $\pm$ 20%	100	0.148	1.55	1.45	6.4
SDNR8040-620MC	62 $\pm$ 20%	100	0.182	1.50	1.30	6.4
SDNR8040-680MC	68 $\pm$ 20%	100	0.196	1.45	1.25	4.9
SDNR8040-750MC	75 $\pm$ 20%	100	0.211	1.35	1.20	4.9
SDNR8040-820MC	82 $\pm$ 20%	100	0.225	1.30	1.15	4.9
SDNR8040-910MC	91 $\pm$ 20%	100	0.272	1.20	1.05	4.9
SDNR8040-101MC	100 $\pm$ 20%	100	0.290	1.15	1.00	4.2
SDNR8040-121MC	120 $\pm$ 20%	100	0.334	1.05	0.95	3.5
SDNR8040-151MC	150 $\pm$ 20%	100	0.410	1.10	0.85	3.5
SDNR8040-181MC	180 $\pm$ 20%	100	0.520	0.95	0.83	3.5
SDNR8040-221MC	220 $\pm$ 20%	100	0.599	0.85	0.80	3.5
SDNR8040-331MC	330 $\pm$ 20%	100	0.889	0.68	0.64	2.8
SDNR8040-471MC	470 $\pm$ 20%	100	1.260	0.60	0.50	2.1
SDNR8040-681MC	680 $\pm$ 20%	100	2.040	0.50	0.45	1.7
SDNR8040-102MC	1,000 $\pm$ 20%	100	2.800	0.40	0.35	1.4
SDNR8040-152MC	1,500 $\pm$ 20%	100	5.000	0.32	0.26	1.0

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