

## SDNR SERIES

### FEATURES

Small and Low profile inductor. It corresponds to High current. Simple and original magnetic shield structure. Durable structure against dropping impact.

### 特性

小型超薄电感器，大电流，特有的简单磁屏蔽结构，超强耐冲击构造。



### ORDERING CODE (标志示例)

SDNR 6028 - 100 M  
(1) (2) (3) (4)

(1) Type

类型

(2) Dimensions

尺寸

J: ±5% K: ±10% L: ±15%

(3) Inductance

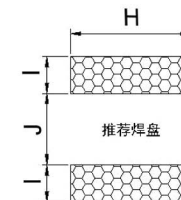
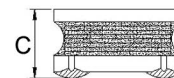
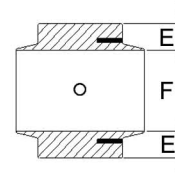
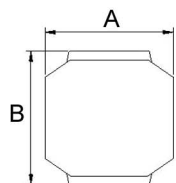
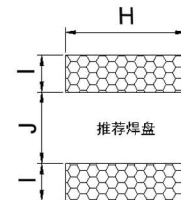
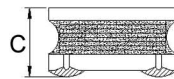
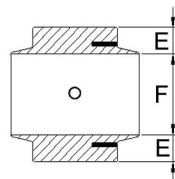
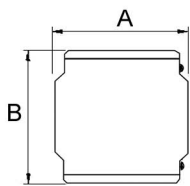
电感量

M: ±20% P: ±25% N: ±30%

(4) Inductance Tolerance

电感量公差

### SHAPE AND DIMENSIONS (形状尺寸)



Unit:mm

TYPE	A	B	C	E	F	I	J	H
SDNR2010	2.0±0.1	2.0±0.1	1.0 MAX	0.5±0.2	1.25±0.2	0.65 typ	0.8 typ	2.0 typ
SDNR3010	3.0±0.1	3.0±0.1	1.0 MAX	0.9±0.2	1.9±0.2	0.8 typ	1.4 typ	2.7 typ
SDNR4010	4.0±0.2	4.0±0.2	1.0 MAX	1.1±0.2	2.5±0.2	1.2 typ	1.6 typ	3.7 typ
SDNR6028	6.0±0.2	6.0±0.2	2.8 MAX	1.35±0.2	3.0±0.2	1.6 typ	3.0 typ	5.7 typ
SDNR6045	6.0±0.2	6.0±0.2	4.5 MAX	1.35±0.2	3.0±0.2	1.6 typ	3.0 typ	5.7 typ
SDNR8040	8.0±0.2	8.0±0.2	4.2 MAX	2.0±0.2	4.0±0.2	1.8 typ	4.0 typ	7.5 typ

Operating TEMP.( 使用温度范围 )

-25℃~ +125℃ ( 包括产品自发热 Including self-generated heat )

Electrical characteristics( 电气特性及参数表 )

■SDNR2010 type

Part No.	Inductance (μH)	Inductance tolerance	DC resistance Ω(±30%)	Saturation current (A)max.	Temperature rise current (A)max.	Test frequency (KHz)
SDNR2010-R47N	0.47	±30%	0.052	2.100	2.000	100
SDNR2010-R68N	0.68	±30%	0.060	1.850	1.850	100
SDNR2010-1R0N	1.0	±30%	0.080	1.550	1.600	100
SDNR2010-1R5M	1.5	±20%	0.100	1.350	1.450	100
SDNR2010-2R2M	2.2	±20%	0.175	1.100	1.100	100
SDNR2010-3R3M	3.3	±20%	0.250	0.880	1.000	100
SDNR2010-4R7M	4.7	±20%	0.320	0.760	0.820	100

■SDNR3010 type

Part No.	Inductance (μH)	Inductance tolerance	DC resistance Ω(±30%)	Saturation current (A)max.	Temperature rise current (A)max.	Test frequency (KHz)
SDNR3010-1R2N	1.2	±30%	0.065	1.700	1.480	100
SDNR3010-1R5N	1.5	±30%	0.075	1.440	1.370	100
SDNR3010-2R2M	2.2	±20%	0.083	1.300	1.300	100
SDNR3010-3R3M	3.3	±20%	0.130	1.000	1.030	100
SDNR3010-4R7M	4.7	±20%	0.170	0.850	0.900	100
SDNR3010-6R8M	6.8	±20%	0.250	0.700	0.745	100
SDNR3010-100M	10	±20%	0.350	0.600	0.620	100
SDNR3010-150M	15	±20%	0.550	0.450	0.480	100
SDNR3010-220M	22	±20%	0.770	0.380	0.410	100
SDNR3010-470M	47	±20%	2.050	0.250	0.285	100

■SDNR4010 type

Part No.	Inductance (μH)	Inductance tolerance	DC resistance Ω(±30%)	Saturation current (A)max.	Temperature rise current (A)max.	Test frequency (KHz)
SDNR4010-1R0N	1.0	±30%	0.056	2.000	1.900	100
SDNR4010-2R2M	2.2	±20%	0.085	1.200	1.500	100
SDNR4010-3R3M	3.3	±20%	0.100	1.100	1.400	100
SDNR4010-4R7M	4.7	±20%	0.140	0.950	1.200	100
SDNR4010-6R8M	6.8	±20%	0.200	0.800	1.000	100
SDNR4010-100M	10	±20%	0.300	0.620	0.750	100
SDNR4010-150M	10	±20%	0.430	0.540	0.600	100
SDNR4010-220M	22	±20%	0.570	0.450	0.500	100

■SDNR6028 type

Part No.	Inductance (μH)	Inductance tolerance	DC resistance Ω(±30%)	Saturation current (A)max.	Temperature rise current (A)max.	Test frequency (KHz)
SDNR6028-0R9N	0.9	±30%	0.013	4.600	4.600	100
SDNR6028-1R5N	1.5	±30%	0.016	5.000	4.200	100
SDNR6028-2R2N	2.2	±30%	0.020	4.200	3.700	100
SDNR6028-3R0N	3.0	±30%	0.020	3.600	3.400	100
SDNR6028-4R7M	4.7	±20%	0.031	2.700	3.000	100
SDNR6028-6R0M	6.0	±20%	0.040	2.500	2.500	100
SDNR6028-100M	10	±20%	0.065	1.900	1.900	100
SDNR6028-150M	15	±20%	0.095	1.600	1.800	100
SDNR6028-220M	22	±20%	0.135	1.300	1.400	100
SDNR6028-330M	33	±20%	0.220	1.100	1.100	100
SDNR6028-470M	47	±20%	0.300	0.950	0.920	100
SDNR6028-680M	68	±20%	0.420	0.760	0.770	100
SDNR6028-101M	100	±20%	0.600	0.620	0.660	100

■SDNR6045 type

Part No.	Inductance (μH)	Inductance tolerance	DC resistance Ω(±30%)	Saturation current (A)max.	Temperature rise current (A)max.	Test frequency (KHz)
SDNR6045-1R0N	1.0	±30%	0.014	8.500	4.200	100
SDNR6045-1R3N	1.3	±30%	0.016	8.000	4.000	100
SDNR6045-1R8N	1.8	±30%	0.018	7.000	3.700	100
SDNR6045-2R3N	2.3	±30%	0.021	6.000	3.500	100
SDNR6045-3R0N	3.0	±30%	0.024	5.000	3.200	100
SDNR6045-4R5M	4.5	±20%	0.031	4.000	3.000	100
SDNR6045-6R3M	6.3	±20%	0.038	3.800	2.800	100
SDNR6045-6R8M	6.8	±20%	0.044	3.800	2.800	100
SDNR6045-100M	10	±20%	0.047	3.000	2.500	100
SDNR6045-150M	15	±20%	0.077	2.300	1.900	100
SDNR6045-220M	22	±20%	0.115	1.900	1.500	100
SDNR6045-330M	33	±20%	0.145	1.500	1.400	100
SDNR6045-470M	47	±20%	0.220	1.300	1.100	100
SDNR6045-680M	68	±20%	0.330	1.000	0.900	100
SDNR6045-101M	100	±20%	0.500	0.800	0.700	100

■SDNR8040 type

Part No.	Inductance (μH)	Inductance tolerance	DC resistance Ω(±30%)	Saturation current (A)max.	Temperature rise current (A)max.	Test frequency (KHz)
SDNR8040-0R9N	0.9	±30%	0.006	11.00	7.800	100
SDNR8040-1R4N	1.4	±30%	0.007	9.000	7.000	100
SDNR8040-2R0N	2.0	±30%	0.009	7.400	6.300	100
SDNR8040-3R3N	3.3	±30%	0.016	5.300	4.900	100
SDNR8040-4R7N	4.7	±30%	0.018	4.700	4.100	100
SDNR8040-6R8N	6.8	±30%	0.025	4.000	3.700	100
SDNR8040-100M	10	±20%	0.034	3.400	3.100	100
SDNR8040-150M	15	±20%	0.050	2.700	2.400	100
SDNR8040-220M	22	±20%	0.066	2.200	2.200	100
SDNR8040-330M	33	±20%	0.100	1.900	1.700	100
SDNR8040-470M	47	±20%	0.150	1.500	1.400	100
SDNR8040-680M	68	±20%	0.230	1.200	1.100	100
SDNR8040-101M	100	±20%	0.290	1.000	1.000	100

☆) The saturation current value (I<sub>dc1</sub>) is the DC current value having inductance decrease down to 30%. (at 20°C)  
 直流重叠允许电流为直流重叠带来的电感值下降，范围在 30% 以内的直流电感值 (at 20°C)。

☆) The temperature rise current value (I<sub>dc2</sub>) is the DC current value having temperature increase up to 40°C. (at 20°C)  
 温度上升允许电流为温度上升到 40°C 时的直流电感值 (at 20°C)。

☆) The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

最大额定电流值为能够满足直流重叠允许电流和温度上升允许电流的直流电流值。

☆) Test equipment 测试仪器: HP4285A;HM2791+HM2713;502BC;HP4194A;HM2670 OR Equiv

Reflow Soldering Temperature Curve( 推荐回流焊温度 )

