

SMNR series, an automatic assembly constructed power inductor, is shielded with magnetic resin





◆特征:

- 磁性胶水涂敷结构极大减少了蜂鸣声
- 大电流低直流阻抗
- 直接在磁芯上金属化电极,抗跌落冲击强
 经久耐用
- 闭合磁路结构设计,漏磁少,抗 EMI 能力强
- 省空间,更省电
- 符合 RoHS,无卤和 REACH

◆用途:

广泛应用于 LED 背光板、平板电视、
 蓝光 DVD 机顶盒、笔记本电脑、台式电脑、
 服务器、显卡、便携式游戏机、个人导航系统、
 多媒体、汽车产品 、通信设备、直流转换.

◆环境:

工作温度: -40℃ 至+125℃
 (包括线圈自身温升)

◆试验设备:

- 电感值:HP4284A, HP4285A 或同等仪器
- 电流:HP4284+42841A
- 直流电阻: Chroma 16502 或同等仪器

◆产品型号:

SMNR

① 类型 Type 闭磁路贴片电感 SMNR Shielded SMT Power Inductors

Features:

- Magnetic-resin shielded construction reduces buzz
 Noise to ultra-low levels
- Large Current and Low DCR
- Metallization on Ferrite Core results in excellent shock Resistance and damage-free durability
- Closed magnetic circuit design reduces leakage
 Flux and Electro Magnetic Interference (EMI)
- Takes up less PCB real estate and save more power Small parasitic capacitance
- RoHS, Halogen Free and REACH Compliance

Applications:

LED backlight、Flat-screen TVs, blue-ray disc
 Set top box、Notebooks, desktop computers, servers,
 Graphic cards、Portable gaming devices, personal
 Navigation systems, personal multimedia devices,
 Automotive systemsTelecomm base station、DC-DC
 Converter

Environmental Data:

Operating Temperature: -40°C to +125°C
 (Including coils self-temperature rise)

Test Equipment:

• L:HP4284A or HP4285A LCR meter or equivalent

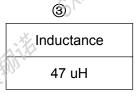
(5)

- Isat & Irms: HP4284+42841A
- DCR:Chroma 16502 or equivalent

Product Identification:

外形尺寸(L×W×H) (mm)
External Dimensions (L×W×H)
(mm)
8040 8.0×8.0×4.0

<u>470</u>





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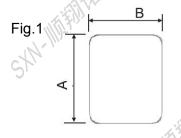
公差 Inductance Tolerance

J:±5%,K: ±10%, L: ±15% M: ±20%,P: ±25%, N: ±30%

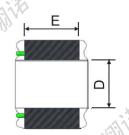
5		42
	包装 Packing	
В	散装Bulk Package	
Т	编带Tape & Reel	

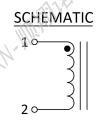
◆外观尺寸:

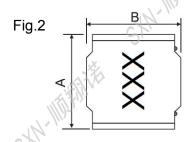
Shape and Dimensions (dimensions are in mm):

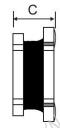


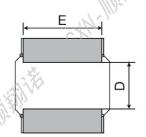


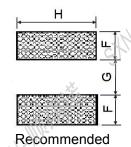












Land Pattern

Dort No					ITEM	٧.			X.
Part No	Shap	A	В	С	D.	E	F	G	H
SMNR201610	Fig.1	2.0±0.3	1.6±0.3	1.08 Max	0.8±0.2	1.0±0.2	0.7 Typ	0.7 Typ	1.7 Typ
SMNR252012	Fig.1	2.5±0.2	2.0±0.2	1.2 Max	0.8±0.2	1.5±0.2	0.85 Typ	0.8 Typ	2.0 Typ
SMNR3010	Fig.2	3.0±0.3	3.0±0.3	1.0 Max	1.5±0.2	2.5±0.2	0.8 Typ	1.5 Typ	2.7 Typ
SMNR3012	Fig.2	3.0±0.3	3.0±0.3	1.2 Max	1.5±0.2	2.5±0.2	0.8 Typ	1.5 Typ	2.7 Typ
SMNR3015	Fig.2	3.0±0.3	3.0±0.3	1.5 Max	1.5±0.2	2.5±0.2	0.8 Typ	1.5 Typ	2.7 Typ
SMNR4010	Fig.2	4.0±0.3	4.0±0.3	1.0 Max	2.1±0.2	3.3±0.2	1.1 Typ	1.9 Typ	3.7 Typ
SMNR4012	Fig.2	4.0±0.3	4.0±0.3	1.2 Max	2.1±0.2	3.3±0.2	1.1 Typ	1.9 Typ	3.7 Typ
SMNR4018	Fig.2	4.0±0.3	4.0±0.3	1.8 Max	2.1±0.2	3.3±0.2	1.1 Typ	1.9 Typ	3.7 Typ
SMNR4020	Fig.2	4.0±0.3	4.0±0.3	2.0 Max	2.1±0.2	3.3±0.2	1.1 Typ	1.9 Typ	3.7 Typ
SMNR4030	Fig.2	4.0±0.3	4.0±0.3	3.0 Max	2.1±0.2	3.3±0.2	1.1 Typ	1.9 Typ	3.7 Typ
SMNR5020	Fig.2	5.0±0.3	5.0±0.3	2.0 Max	2.5±0.2	4.0±0.2	1.4 Typ	2.3 Typ	4.2 Typ
SMNR5030	Fig.2	5.0±0.3	5.0±0.3	3.0 Max	2.5±0.2	4.0±0.2	1.4 Typ	2.3 Typ	4.2 Typ
SMNR5040	Fig.2	5.0±0.3	5.0±0.3	4.0 Max	2.5±0.2	4.0±0.2	1.4 Typ	2.3 Typ	4.2 Typ
SMNR6020	Fig.2	6.0±0.3	6.0±0.3	2.0 Max	2.9±0.3	4.9±0.3	1.7 Typ	2.8 Typ	5.7 Typ
SMNR6028	Fig.2	6.0±0.3	6.0±0.3	3.0 Max	2.9±0.3	4.9±0.3	1.7 Typ	2.8 Typ	5.7 Typ
SMNR6045	Fig.2	6.0±0.3	6.0±0.3	4.5 Max	2.9±0.3	4.9±0.3	1.7 Typ	2.8 Typ	5.7 Typ
SMNR8040	Fig.2	8.0±0.3	8.0±0.3	4.0 Max	4.0±0.3	6.3±0.3	2.2 Typ	3.8 Typ	7.5 Typ
SMNR8060	Fig.2	8.0±0.3	8.0±0.3	6.0 Max	4.0±0.3	6.3±0.3	2.2 Typ	3.8 Typ	7.5 Typ

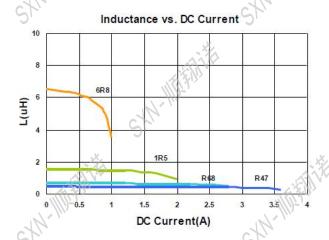


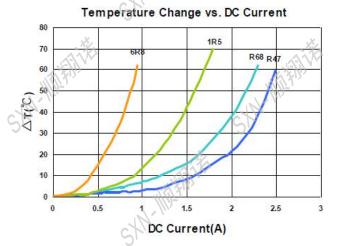
◆规格特性:

Specifications:

• SMNR201610 Series Electrical Characteristics (Electrical specifications at 25℃)

Dord No.	15 1 V	Inductance 100KHz 0.25V		R (Ω)	Saturation Current	Temperature Rise Current
Part No	L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max
SMNR201610 -R24MT	0.24	±20%	0.033	0.040	3.70	2.90
SMNR201610 -R33MT	0.33	±20%	0.038	0.048	2.50	2.90
SMNR201610 -R47MT	0.47	±20%	0.047	0.059	2.30	2.35
SMNR201610 -R68MT	0.68	±20%	0.061	0.076	1.95	2.05
SMNR201610 -1R0MT	1.0	±20%	0.091	0.114	1.65	1.45
SMNR201610 -1R5MT	1.5	±20%	0.139	0.174	1.35	1.10
SMNR201610 -2R2MT	2.2	±20%	0.211	0.264	1.20	1.10
SMNR201610 –3R3MT	3.3	±20%	0.268	0.335	0.90	0.88
SMNR201610 -4R7MT	4.7	±20%	0.383	0.479	0.74	0.70
SMNR201610 6R8MT	6.8	±20%	0.652	0.816	0.60	0.52
SMNR201610 -100MT	10.0	±20%	0.816	1.020	0.50	0.45

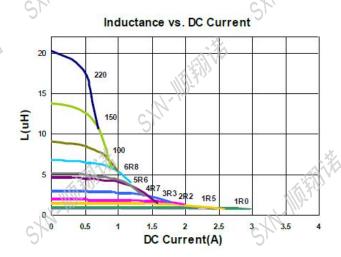


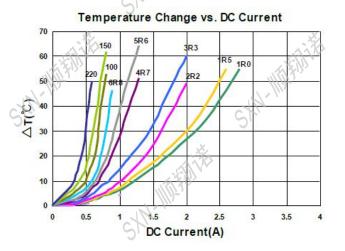




• SMNR252012 Series Electrical Characteristics (Electrical specifications at 25℃)

100K		ance 0.25V	DC	R (Ω)	Saturation Current	Temperature Rise Current
Part No	L(µH) '@0A	Tol	Typical	Max	(A) Max	(A) Max
SMNR252012 -R68NT	0.68	±30%	0.059	0.074	3.28	1.95
SMNR252012 1R0NT	1.0	±30%	0.072	0.090	2.59	1.93
SMNR252012 –1R5MT	1.5	±20%	0.117	0.147	2.24	1.40
SMNR252012 –2R2MT	2.2	±20%	0.173	0.216	1.85	1.15
SMNR252012 –3R3MT	3.3	±20%	0.211	0.264	1.61	1.04
SMNR252012 –4R7MT	4.7	±20%	0.302	0.377	1.12	0.84
SMNR252012 –5R6MT	5.6	±20%	0.430	0.538	1.11	0.73
SMNR252012 –6R8MT	6.8	±20%	0.464	0.581	0.98	0.69
SMNR252012 -8R2MT	8.2	±20%	0.526	0.658	0.98	0.65
SMNR252012 -100MT	10	±20%	0.552	0.690	0.79	0.62
SMNR252012 –150MT	15	±20%	1.273	1.591	0.68	0.42
SMNR252012 –220MT	22	±20%	1.459	1.824	0.53	0.38



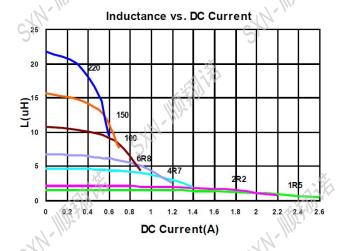


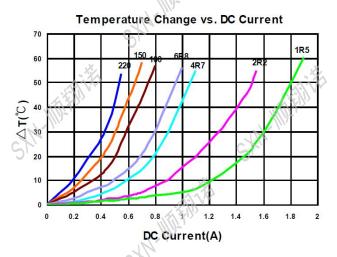


• SMNR3010 Series Electrical Characteristics (Electrical specifications at 25 °C)

Dow No.	Induct 100KH		DCI	R (Ω)	Saturation Current	Temperature Rise Current
Part No	L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max
SMNR3010 -1R0M	1.0	±20%	0.065	0.085	1.40	1.45
SMNR3010 -1R5M	1.5	±20%	0.085	0.104	1.27	1.30
SMNR3010 -2R2M	2.2	±20%	0.110	0.143	1.15	1.09
SMNR3010 -3R3M	3.3	±20%	0.150	0.189	0.97	0.96
SMNR3010 -4R7M	4.7	±20%	0.230	0.290	0.75	0.77
SMNR3010 -6R8M	6.8	±20%	0.305	0.340	0.55	0.66
SMNR3010 -100M	10	±20%	0.400	0.520	0.55	0.58
SMNR3010 -150M	15	±20%	0.610	0.800	0.42	0.47
SMNR3010 -220M	22	±20%	0.930	1.209	0.35	0.38
SMNR3010 -330M	33	±20%	1.550	2.020	0.29	0.30
SMNR3010 -470M	47	±20%	2.000	2.535	0.22	0.26

[•] Saturation current VS temperature rise current curve

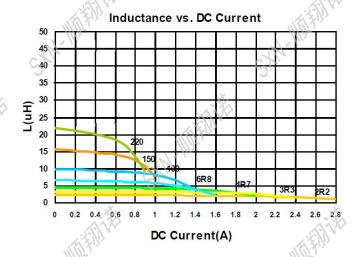


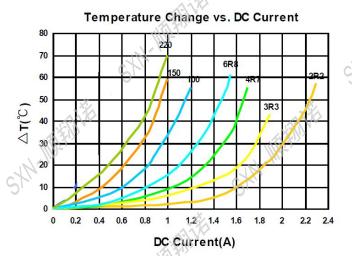




• SMNR3012 Series Electrical Characteristics (Electrical specifications at 25 °C)

Dowt No.	X	\mathcal{L} DCR (Ω)		Inductance 100KHz 1.0V		Saturation Current	Temperature Rise Current
Part No	L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max	
SMNR3012 -R24M	0.24	±20%	0.020	0.029	4.00	3.00	
SMNR3012 -1R0M	1.0	±20%	0.040	0.052	1.87	2.20	
SMNR3012 -1R5M	1.5	±20%	0.045	0.060	1.62	2.00	
SMNR3012 -2R2M	2.2	±20%	0.070	0.080	1.20	1.55	
SMNR3012 -3R3M	3.3	±20%	0.100	0.130	1.05	1.36	
SMNR3012 -4R7M	4.7	±20%	0.120	0.156	0.90	1.24	
SMNR3012 -6R8M	6.8	±20%	0.190	0.247	0.75	0.98	
SMNR3012 -100M	10	±20%	0.265	0.345	0.60	0.83	
SMNR3012 -150M	15	±20%	0.360	0.468	0.45	0.71	
SMNR3012 -220M	22	±20%	0.645	0.839	0.42	0.47	

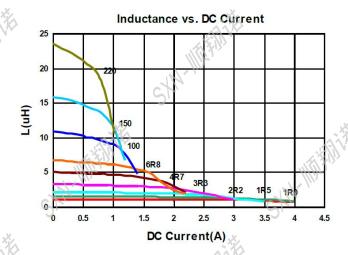


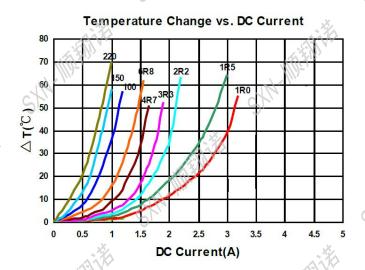




• SMNR3015 Series Electrical Characteristics (Electrical specifications at 25 °C)

	Part No	Inducta 100KHz		DCR (Ω)		Saturation Current	Temperature Rise Current
		L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max
	SMNR3015 -R47M	0.47	±20%	0.024	0.035	2.50	2.60
	SMNR3015 -1R0M	1.0	±20%	0.030	0.039	2.32	2.35
	SMNR3015 -1R5M	1.5	±20%	0.050	0.065	2.30	1.70
	SMNR3015 -1R8M	1.8	±20%	0.050	0.065	1.75	1.70
	SMNR3015 -2R2M	2.2	±20%	0.060	0.078	1.60	1.60
_	SMNR3015 -3R3M	3.3	±20%	0.080	0.104	1.32	1.36
\	SMNR3015 -4R7M	4.7	±20%	0.125	0.165	1.10	1.09
	SMNR3015 -6R8M	6.8	±20%	0.200	0.260	0.85	0.85
	SMNR3015 -100M	10	±20%	0.250	0.325	0.72	0.77
	SMNR3015 -150M	15	±20%	0.350	0.455	0.66	0.65
	SMNR3015 -220M	22	±20%	0.460	0.598	0.52	0.57
	SMNR3015 -330M	33	±20%	0.820	1.066	0,44	0.43
	SMNR3015 -470M	47	±20%	1.250	1.625	0.35	0.35



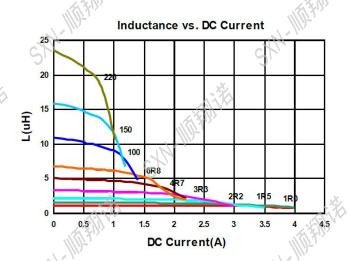


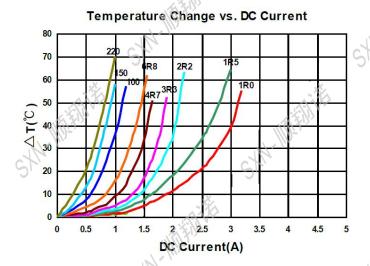


• SMNR4010 Series Electrical Characteristics (Electrical specifications at 25 °C)

	Inducta 100KHz			DCF	R (Ω)	Saturation Current	Temperature Rise Current
	Part No	L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max
S	MNR4010 -1R0M	1.0	±20%	0.056	0.070	2.00	1.90
S	MNR4010 -2R2M	2.2	±20%	0.085	0.105	1.20	1.50
S	MNR4010 -3R3M	3.3	±20%	0.105	0.125	1:10	1.40
S	MNR4010 -4R7M	4.7	±20%	0.185	0.260	0.95	1.20
S	MNR4010 -6R8M	6.8	±20%	0.189	0.270	0.80	1.00
S	MNR4010 -100M	10	±20%	0.266	0.380	0.62	0.75
S	MNR4010 -150M	15	±20%	0.385	0.550	0.54	0.60
S	MNR4010 -220M	22	±20%	0.490	0.700	0.45	0.50
S	MNR4010 -330M	33	±20%	0.546	0.780	0.28	0.32
S	MNR4010 -470M	47	±20%	0.693	0.990	0.16	0.20

[•] Saturation current VS temperature rise current curve



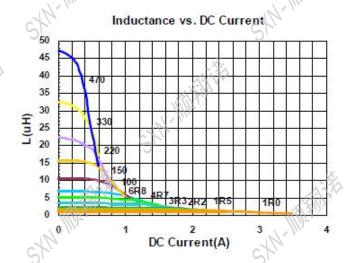


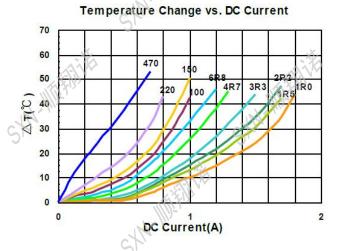


• SMNR4012 Series Electrical Characteristics (Electrical specifications at 25 °C)

Part No	Induct 100KH		DCF	R (Ω)	Saturation Current	Temperature Rise Current	
Part NO	L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max	
SMNR4012 -1R0M	1.0	±20%	0.050	0.065	2.61	1.65	
SMNR4012 -1R5M	1.5	±20%	0.065	0.094	2.50	1.46	
SMNR4012 -2R2M	2.2	±20%	0.080	0.104	1.76	1.32	
SMNR4012 -3R3M	3.3	±20%	0.110	0.143	1.72	1.12	
SMNR4012 -4R7M	4.7	±20%	0.125	0.163	1.15	1.05	
SMNR4012 -6R8M	6.8	±20%	0.198	0.257	0.85	0.84	
SMNR4012 -100M	10	±20%	0.265	0.345	0.80	0.77	
SMNR4012 -150M	15	±20%	0.340	0.442	0.56	0.64	
SMNR4012 -220M	22	±20%	0.587	0.763	0.46	0.49	
SMNR4012 -330M	33	±20%	0.810	1.053	0.42	0.42	
SMNR4012 -470M	47	±20%	1.100	1.430	0.35	0.37	

[•] Saturation current VS temperature rise current curve

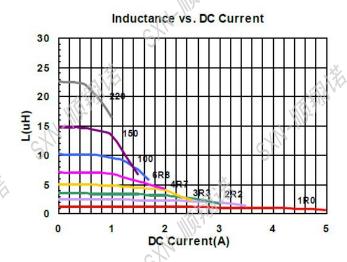


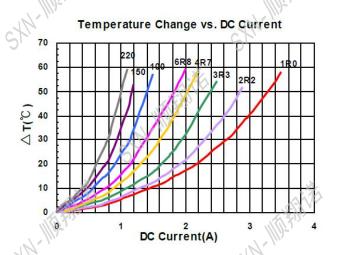




• SMNR4018 Series Electrical Characteristics (Electrical specifications at 25 °C)

5 (1)	Inductance 100KHz 1.0V		DCF	R (Ω)	Saturation Current	Temperature Rise Current
Part No	L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max
SMNR4018 -R24M	0.24	±20%	0.0140	0.018	4.30	4.00
SMNR4018 -1R0M	1.0	±20%	0.025	0.033	4.80	2.00
SMNR4018 -1R5M	1.5	±20%	0.030	0.039	3.35	1.80
SMNR4018 -2R2M	2.2	±20%	0.34	0.550	2.70	1.65
SMNR4018 -3R3M	3.3	±20%	0.070	0.091	2.45	1.23
SMNR4018 -4R7M	4.7	±20%	0.090	0.115	1.70	1.20
SMNR4018 -6R8M	6.8	±20%	0.110	0.140	1.45	1.06
SMNR4018 -100M	10	±20%	0.180	0.230	1.30	0.84
SMNR4018 -150M	15	±20%	0.250	0.320	0.94	0.65
SMNR4018 -220M	22	±20%	0.360	0.450	0.80	0.59
SMNR4018 -330M	33	±20%	0.530	0.689	0.56	0.49
SMNR4018 -470M	47	±20%	0.650	0.845	0.57	0.42
SMNR4018 -680M	68	±20%	1.000	1.300	0.47	0.32
SMNR4018 -101M	100	±20%	1.750	2.200	0.40	0.25
SMNR4018 -151M	150	±20%	2.500	3.000	0.31	0.22

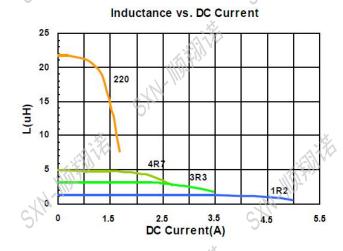


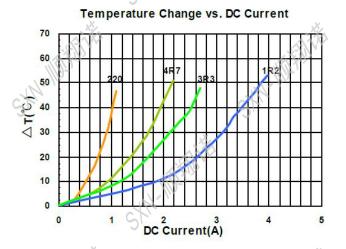




• SMNR4020 Series Electrical Characteristics (Electrical specifications at 25 °C)

Dow No.	Induct 100KHz		DC	R (Ω)	Saturation Current	Temperature Rise Current	
Part No	L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max	
SMNR4020 -R47M	0.47	±20%	0.022	0.029	7.00	3.30	
SMNR4020 -1R0M	1.0	±20%	0.029	0.038	4.78	2.15	
SMNR4020 -1R5M	1.5	±20%	0.035	0.045	4.45	2.15	
SMNR4020 -2R2M	2.2	±20%	0.035	0.046	3.40	1.85	
SMNR4020 -3R3M	3.3	±20%	0.070	0.091	3.20	1.40	
SMNR4020 -4R7M	4.7	±20%	0.075	0.098	2.35	1.34	
SMNR4020 -6R8M	6.8	±20%	0.125	0.163	2.20	1.04	
SMNR4020 -8R2M	8.2	±20%	0.148	0.185	1.75	1.00	
SMNR4020 -100M	10	±20%	0.165	0.215	1.60	0.90	
SMNR4020 -150M	15	±20%	0.230	0.300	1.35	0.77	
SMNR4020 -220M	22	±20%	0.350 5	0.455	1.05	0.62	
SMNR4020 -330M	33	±20%	0.550	0.710	0.85	0.49	
SMNR4020 -470M	47	±20%	0.710	0.920	0.74	0.44	
SMNR4020 -680M	68	±20%	1.060	1.380	0.60	0.36	

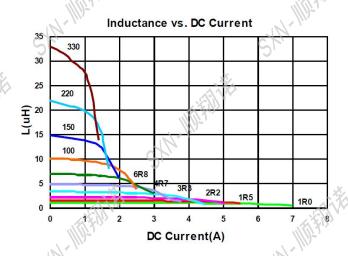


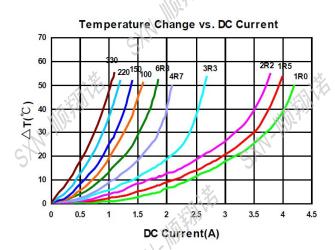




• SMNR4030 Series Electrical Characteristics (Electrical specifications at 25 °C)

		Inductance 100KHz 1.0V		DCF	R (Ω)	Saturation Current	Temperature Rise Current
	Part No	L(µH) '@0A	Tol	Typical	Max	(A) Max	(A) Max
Ī	SMNR4030 -1R0M	1.0	±20%	0.014	0.018	5.26	4.15
	SMNR4030 -1R2M	1.2	±20%	0.015	0.020	5.26	3.82
_	SMNR4030 -1R5M	1.5	±20%	0.020	0.026	4.84	3.34
	SMNR4030 -1R8M	1.8	±20%	0.025	0.033	4.84	3.20
	SMNR4030 -2R2M	2.2	±20%	0.030	0.039	4.40	2.95
_	SMNR4030 -3R3M	3.3	±20%	0.040	0.050	3.30	2.40
>	SMNR4030 -4R7M	4.7	±20%	0.060	0.076	2.90	2.00
	SMNR4030 -6R8M	6.8	±20%	0.090	0.115	2.75	1.60
	SMNR4030 -8R2M	8.2	±20%	0.095	0.122	2.10	1.60
_	SMNR4030 -100M	10	±20%	0.100	0.130	1.95	1.50
	SMNR4030 -120M	12	±20%	0.135	0.172	1.70	1.30
	SMNR4030 -150M	15	±20%	0.190	0.230	1.65	1.11
	SMNR4030 -220M	22	±20%	0.225	0.290	1.30	1.00
	SMNR4030 -330M	33	±20%	0.330	0.420	1.10	0.84
<u></u>	SMNR4030 -470M	47	±20%	0.445	0.570	0.95	0.72
_	SMNR4030 -680M	68	±20%	0.868	1,100	0.72	0.52
_	SMNR4030 -820M	82	±20%	1.060	1.280	0.66	0.47
	SMNR4030 -101M	100	±20%	1.150	1.480	0.60	0.45
_	SMNR4030 -121M	120	±20%	1.350	1.700	0.55	0.42
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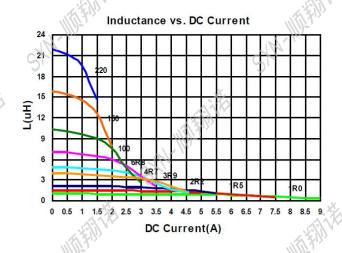


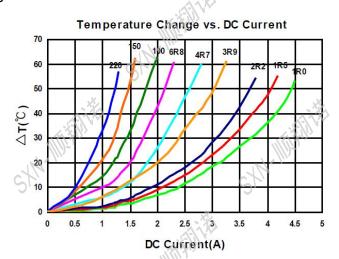




• SMNR5020 Series Electrical Characteristics (Electrical specifications at 25°C)

		Inductance 100KHz 1.0V		DC	R (Ω)	Saturation Current	Temperature Rise Current	
	Part No	L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max	
	SMNR5020 -R47M	0.47	±20%	0.017	0.021	4.50	4.60	
_	SMNR5020 -1R0M	1.0	±20%	0.020	0.025	4.10	3.80	
_	SMNR5020 -1R5M	1.5	±20%	0.026	0.032	3.80	3.20	
	SMNR5020 -2R2M	2.2	±20%	0.032	0.040	3.20	2.90	
	SMNR5020 -3R3M	3.3	±20%	0.043	0.054	2.55	2.50	
_	SMNR5020 -3R9M	3.9	±20%	0.043	0.054	2.30	2.50	
	SMNR5020 -4R7M	4.7	±20%	0.057	0.074	2.40	2.20	
_	SMNR5020 -6R8M	6.8	±20%	0.083	0.107	2.05	1.80	
	SMNR5020 -8R2M	8.2	±20%	0.098	0.125	1.85	1.65	
	SMNR5020 -100M	10	±20%	0.110	0.140	1.70	1.55	
	SMNR5020 -120M	12	±20%	0.140	0.180	1.50	1.40	
	SMNR5020 -150M	15	±20%	0.165	0.210	1.35	1.25	
_	SMNR5020 -220M	22	±20%	0.226	0.290	1.15	1.10	
-	SMNR5020 -330M	33	±20%	0.390	0.500	0.95	0.90	
· -	SMNR5020 -470M	47	±20%	0.523	0.670	0.77	0.77	
\Diamond	SMNR5020 -680M	68	±20%	0.740	1.050	0.72	0.64	
	SMNR5020 -820M	82	±20%	1.000	1.280	0.66	0.50	
_	SMNR5020 -101M	100	±20%	1.100	1.480	0.57	0.53	
	SMNR5020 -121M	120	±20%	1.350	1.700	0.49	0.40	
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• SMNR5030 Series Electrical Characteristics (Electrical specifications at 25 °C)

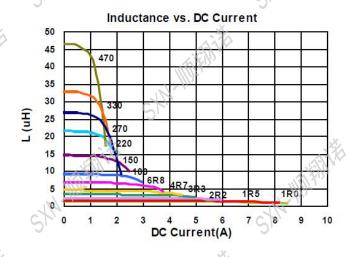
Dorf No.	ي. بر	Inductance 100KHz 0.25V		R (Ω)	Saturation Current	Temperature Rise Current
Part No	L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max
SMNR5030 -1R0	м 9 1.0	±20%	0.016	0.020	7.00	4.00
SMNR5030 -1R5	5N 1.5	±30%	0.019	0.024	5.50	3.60
SMNR5030 -2R2	N 2.2	±30%	0.025	0.031	4.50	3.20
SMNR5030 -3R3	3.3	±30%	0.032	0.039	4.00	2.80
SMNR5030 -4R7	M 4.7	±20%	0.052	0.065	3.00	2.20
SMNR5030 -5R6	5N 5.6	±30%	0.056	0.070	3.00	2.10
SMNR5030 -6R8	M 6.8	±20%	0.060	0.075	2.80	2.00
SMNR5030 -100	M 10	±20%	0.080	0.100	2.10	1.80
SMNR5030 -150	M 15	±20%	0.125	0.156	1.70	1.40
SMNR5030 -220	M 22	±20%	0.210	0.260	1.60	1.10
SMNR5030 -330	M 33	±20%	0.330	0.410	1.20	0.85
SMNR5030 -470	M 47	±20%	0.375	0.468	0.90	0.80
SMNR5030 -101	M 100	±20%	0.800	0.988	0.75	0.56
SMNR5030 -151	M 150	±20%	1.180	1.470	0.55	0.46
SMNR5030 -221	M 220	±20%	1.700	2.080	0.45	0.39
SMNR5030 -331	M 330	±20%	2.800	3.500	0.35	0.30
SMNR5030 -471	M 470	±20%	3.800	4.700	0.30	0.26
SMNR5030 -102	М 1000	±20%	8.700	10.800	0.20	0.17

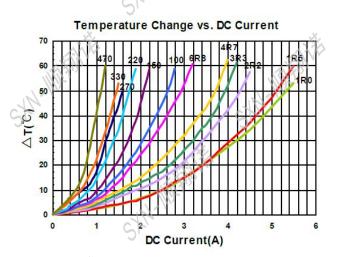
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• SMNR5040 Series Electrical Characteristics (Electrical specifications at 25 °C)

Dowt No.	Induct		DCI	マ (Ω)	Saturation Current	Temperature Rise Current	
Part No	L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max	
SMNR5040 -1R0M	1.0	±20%	0.012	0.018	7.35	4.90	
SMNR5040 -1R2M	1.2	±20%	0.016	0.021	6.50	4.30	
SMNR5040 -1R5M	1.5	±20%	0.015	0.020	6.30	4.30	
SMNR5040 -2R2M	2.2	±20%	0.019	0.025	4.90	3.80	
SMNR5040 -3R3M	3.3	±20%	0.024	0.031	3.95	3.40	
SMNR5040 -4R7M	4.7	±20%	0.030	0.039	3.50	3.00	
SMNR5040 -6R8M	6.8	±20%	0.043	0.056	2.90	2.50	
SMNR5040 -8R2M	8.2	±20%	0.050	0.070	2.70	2.30	
SMNR5040 -100M	10	±20%	0.064	0.082	2.35	2.10	
SMNR5040 -120M	12	±20%	0.077	0.102	2.20	2.00	
SMNR5040 -150M	15	±20%	0.086	0.115	2.00	2.00	
SMNR5040 -220M	22	±20%	0.129	0.167	1.60	1.50	
SMNR5040 -330M	33	±20%	0.188	0.244	1.30	1.20	
SMNR5040 -470M	47	±20%	0.272	0.353	1.10	1.00	
SMNR5040 -680M	68	±20%	0.400	0.520	0.90	0.80	
SMNR5040 -820M	82	±20%	0.560	0.660	0.80	0.75	
SMNR5040 -101M	100	±20%	0.509	0.728	0.75	0.70	
SMNR5040 -121M	120	±20%	0.665	0.864	0.70	0.65	
SMNR5040 -151M	150	±20%	0.750	0.975	0.65	0.60	
SMNR5040 -221M	220	±20%	1.400	1.820	0.48	0.40	
SMNR5040 -331M	330	±20%	2.000	2.730	0.42	0.40	
SMNR5040 -471M	470	±20%	3.000	3.900	0.37	0.35	
SMNR5040 -681M	680	±20%	3.900	5.070	0.30	0.25	
SMNR5040 -102M	1000	±20%	6.000	7.800	0.21	0.23	

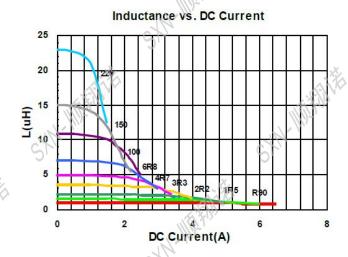


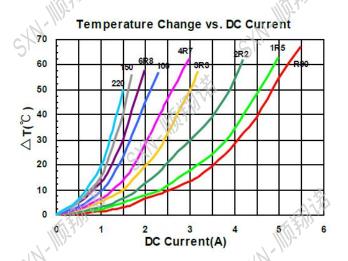




• SMNR6020 Series Electrical Characteristics (Electrical specifications at 25 °C)

		\sim 1	•	•			
David Na	X.	Inductance 100KHz 1.0V		R (Ω)	Saturation Current	Temperature Rise Current	
Part No	L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max	
SMNR6020 -R68M	0.68	±20%	0.017	0.022	6.55	3.80	
SMNR6020 -R82M	0.82	±20%	0.017	0.023	5.30	3.80	
SMNR6020 -1R0M	1.0	±20%	0.018	0.026	4.15	3.50	
SMNR6020 -1R5M	1.5	±20%	0.022	0.028	4.10	3.20	
SMNR6020 -1R8M	1.8	±20%	0.028	0.036	4.05	2.75	
SMNR6020 -2R2M	2.2	±20%	0.028	0.038	4.00	2.75	
SMNR6020 -3R3M	3.3	±20%	0.035	0.045	3.15	2.60	
SMNR6020 -3R9M	3.9	±20%	0.049	0.060	3.10	2.10	
SMNR6020 -4R7M	4.7	±20%	0.058	0.075	3.00	2.00	
SMNR6020 -5R6M	5.6	±20%	0.058	0.077	2.40	1.90	
SMNR6020 -6R8M	6.8	±20%	0.079	0.100	2.20	1.80	
SMNR6020 -8R2M	8.2	±20%	0,105	0.130	2.10	1.40	
SMNR6020 -100M	10	±20%	0.105	0.135	1.75	1.40	
SMNR6020 -120M	12	±20%	0.120	0.150	1.45	1.30	
SMNR6020 -150M	15	±20%	0.145	0.188	1.20	1.20	
SMNR6020 -180M	18	±20%	0.180	0.230	1.16	1.08	
SMNR6020 -220M	22	±20%	0.204	0.260	1.05	1.00	

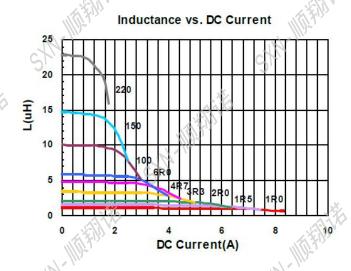


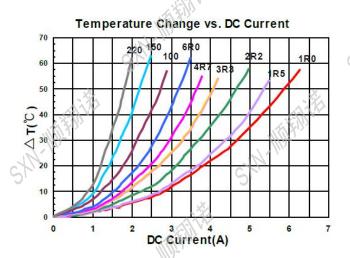




• SMNR6028 Series Electrical Characteristics (Electrical specifications at 25 °C)

Part No		Inductance 100KHz 1.0V		DCI	R (Ω)	Saturation Current	Temperature Rise Current
	Part No	L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max
	SMNR6028 -R68M	0.68	±20%	0.010	0.013	6.90	5.20
	SMNR6028 -1R0M	1.0	±20%	0.010	0.013	5.75	5.20
-	SMNR6028 -1R5M	1.5	±20%	0.013	0.016	5.50	4.58
	SMNR6028 -2R2M	2.2	±20%	0.020	0.026	5.10	3.75
	SMNR6028 -3R3M	3.3	±20%	0.025	0.032	4.15	3.48
_	SMNR6028 -4R7M	4.7	±20%	0.030	0.039	3.00	3.08
	SMNR6028 -6R8M	6.8	±20%	0.047	0.061	2.60	2.40
-	SMNR6028 -8R2M	8.2	±20%	0.055	0.071	2.30	2.25
	SMNR6028 -100M	10	±30%	0.074	0.093	2.04	1.95
_	SMNR6028 -120M	12	±30%	0.080	0.104	1.80	1.85
	SMNR6028 -150M	15	±30%	0.125	0.162	1.75	1.45
	SMNR6028 -180M	18	±30%	0.120	0.169	1.52	1.45
	SMNR6028 -220M	22	±30%	0.140	0.182	1.45	1.40
	SMNR6028 -330M	33	±20%	0.185	0.240	1.35	1.22
_	SMNR6028 -390M	39	±20%	0.225	0.292	1.25	1.10
()	SMNR6028 -470M	47	±20%	0.315	0.400	1.15	1.06
-	SMNR6028 -680M	68	±20%	0.360	0.468	0.80	0.86
-	SMNR6028 -820M	82	±20%	0.500	0.650	0.75	0.70
-	SMNR6028 -101M	100	±20%	0.550	0.675	0.65	0.70
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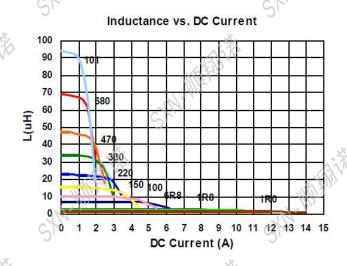




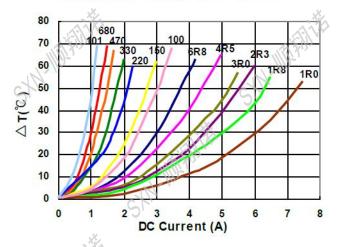
• SMNR6045 Series Electrical Characteristics (Electrical specifications at 25 °C)

Down No.	Inductance 100KHz 1.0V		DCF	マ (Ω)	Saturation Current	Temperature Rise Current
Part No	L(µH) '@0A	Tol	Typical	Max	(A) Max	(A) Max
SMNR6045 -1R0M	1.0	±20%	0.011	0.014	9.85	5.14
SMNR6045 -1R5M	1.5	±20%	0.012	0.015	8.80	4.95
SMNR6045 -2R2M	2.2	±20%	0.014	0.018	6.75	4.60
SMNR6045 -3R3M	3.3	±20%	0.021	0.027	5.90	3.70
SMNR6045 -4R7M	4.7	±20%	0.026	0.033	4.97	3.30
SMNR6045 -6R8M	6.8	±20%	0.031	0.040	3.90	3.00
SMNR6045 -100M	10	±20%	0.048	0.062	3.20	2.45
SMNR6045 -150M	15	±20%	0.068	0.088	2.50	2.05
SMNR6045 -220M	22	±20%	0.089	0.115	2.05	1.80
SMNR6045 -330M	33	±20%	0.137	0.178	1.65	1.50
SMNR6045-470M	47	±20%	0.200	0.260	1.40	1.20
SMNR6045-680M	68	±20%	0.286	0.375	1.20	1.00
SMNR6045-820M	82	±20%	0.341	0.440	1.05	0.90
SMNR6045-101M	100	±20%	0.433	0.562	0.95	0.80
SMNR6045-121M	120	±20%	0.484	0.628	0.85	0.77
SMNR6045-151M	150	±20%	0.580	0.750	0.80	0.70
SMNR6045-221M	220	±20%	0.834	1.050	0.70	0.59
SMNR6045-331M	330	±20%	1.270	1.650	0.57	0.57
SMNR6045-471M	470	±20%	1.800	2.340	0.50	0.42
SMNR6045-681M	680	±20%	2.500	3.250	0.42	0.33
SMNR6045-102M	1000	±20%	4.500	5.850	0.30	0.30

• Saturation current VS temperature rise current curve



Temperature Change vs. DC Curent

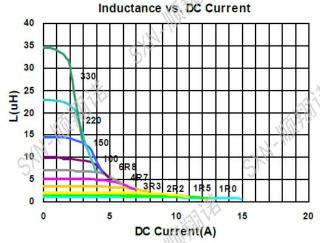


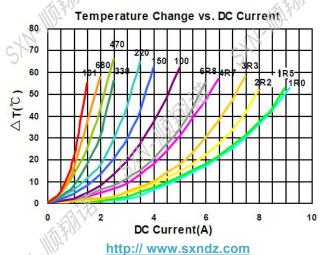


• SMNR8040 Series Electrical Characteristics (Electrical specifications at 25 °C)

		Inductance 100KHz 1.0V		DCF	R (Ω)	Saturation Current	Temperature Rise Current	
	Part No	L(µH) '@0A	Tol	Typical	Max	(A) Max	(A) Max	
	SMNR8040 -1R0M	1.0	±20%	0.008	0.010	9.85	6.30	
	SMNR8040 -1R5M	1.5	±20%	0.010	0.013	8.15	5.65	
	SMNR8040 -2R2M	2.2	±20%	0.012	0.015	7 10	5.15	
	SMNR8040 -3R3M	3.3	±20% (0.017	0.022	6.50	4.40	
	SMNR8040 -3R6M	3.6	±20%	0.017	0.022	6.50	4.35	18
	SMNR8040 -4R7M	4.7	±20%	0.019	0.024	5.90	4.10	1
· .	SMNR8040 -5R6M	5.6 ×	±20%	0.021	0.027	4.55	3.85	
Ø	SMNR8040 -6R8M	6.8	±20%	0.024	0.031	4.55	3.60	
	SMNR8040 -8R2M	8.2	±20%	0.026	0.033	4.20	3.45	
	SMNR8040 -100M	10	±20%	0.029	0.037	3.60	3.30	
	SMNR8040 -150M	15	±20%	0.047	0.061	2.95	2.80	
	SMNR8040 -180M	18	±20%	0.053	0.068	2.70	2.40	
	SMNR8040 -220M	22	±20%	0.069	0.089	2.40	2.10	
	SMNR8040 -270M	27	±20% (0.078	0.101	2.15	2.00	
	SMNR8040 -330M	33	±20%	0.097	0.126	2.05	1.80	13
	SMNR8040 -390M	39	±20%	0.107	0.139	1.95	1.70	,
<u> </u>	SMNR8040-470M	47 ×	±20%	0.136	0.176	1.75	1.55	
Ç.	SMNR8040-680M	68	±20%	0.196	0.254	1.45	1.25	
	SMNR8040 -820M	82	±20%	0.225	0.292	1.30	1.15	
	SMNR8040-101M	100	±20%	0.290	0.377	1.15	1.00	
	SMNR8040 -121M	120	±20%	0.334	0.434	1.12	0.95	
	SMNR8040 -151M	150	±20%	0.410	0.553	1.10	0.85	
	SMNR8040 -221M	220	±20%	0.599	0.778	0.85	0.80	
	SMNR8040 -331M	330	±20% \	0.889	1.155	0.68	0.64	
	SMNR8040 -471M	470	±20%	1.260	1.625	0.60	0.50	J
	SMNR8040 -681M	680	±20%	2.040	2.652	0.50	0.45	ار
Y.	SMNR8040 -102M	1000	±20%	2.800	3.640	0.40	0.35	

Saturation current VS temperature rise current curve Industrance vs. 20 Current



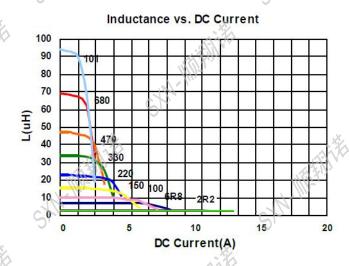




• SMNR8060 Series Electrical Characteristics (Electrical specifications at 25 °C)

Part No		Inductance 100KHz 1.0V		DCI	R (Ω)	Saturation Current	Temperature Rise Current
		L(μH) '@0A	Tol	Typical	Max	(A) Max	(A) Max
	SMNR8060 -2R2M	2.2	±20%	0.015	0.022	8.00	5.70
_	SMNR8060 -3R3M	3.3	±20%	0.017	0.025	7.50	5.00
	SMNR8060 -4R7M	4.7	±20%	0.022	0.032	7.00	4.65
	SMNR8060 -6R8M	6.8	±20%	0.025	0.037	5.90	4.20
	SMNR8060 -100M	10	±20%	0.029	0.042	5.80	3.80
_	SMNR8060 -150M	15	±20%	0.049	0.071	4.50	3.10
>	SMNR8060 -220M	22	±20%	0.070	0.100	4.30	2.70
	SMNR8060 -330M	33	±20%	0.113	0.162	3.00	2.10
	SMNR8060-470M	47	±20%	0.131	0.188	2.85	1.80
	SMNR8060-680M	68	±20%	0.173	0.248	2.50	1.60
	SMNR8060-101M	100	±20%	0.266	0.380	2.00	1.25
	SMNR8060 -221M	220	±20%	0.618	0.884	1.20	0.82
	SMNR8060 -331M	330	±20%	0.88	1.260	1.05	0.68
	SMNR8060 -471M	470	±20%	1.23	1.760	0.90	0.55
· _	SMNR8060 -681M	680	±20%	1.96	2.800	0.80	0.50
Ø	SMNR8060 -821M	820	±20%	2.38	3.400	0.70	0.43
	SMNR8060 -102M	1000	±20%	2.71	3.870	0.60	0.37

- Saturation Current: DC current at which inductance drops 30% from its value without current.
- Temperature Rise Current: the actual value of DC current when the temperature rise isΔT 40 °C (Ta=25 °C).
- Rated DC Current: The less value which is Isat or Irms.
- Special remind:Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Saturation current VS temperature rise current curve



Temperature Change vs. DC Curent

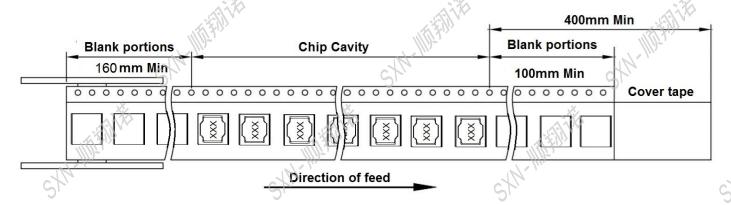
80
70
101
470
100
103
330
150
50
20
10
0
1
2
3
4
5
6
7
8
DC Current (A)



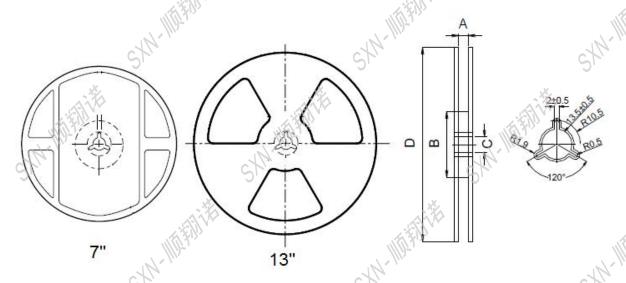
◆产品包装:

Packaging:

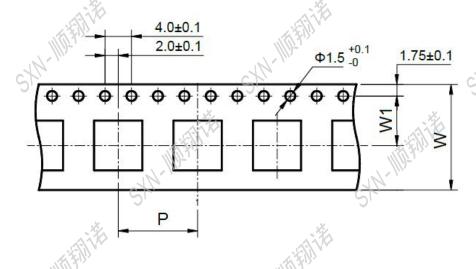
• Tape and Reel Specifications: (Dimensions are in mm)



Reel Dimensions (mm)

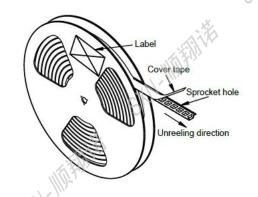


•Tape Dimension (mm)

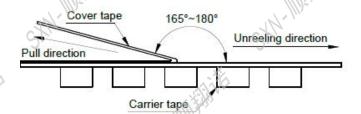




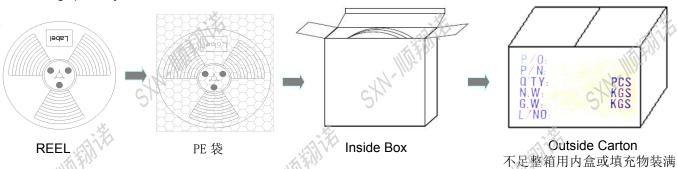
• Cover tape peel off condition



- a) Cover tape peel force shall be 10 to 120g
- b) Noodle strip peeling angle165°to 180°



Packing quantity



	1/4				1/1/				10			
	Sort No.	Тар	e Dimen	sion	Sr	Reel Dim	nensions		REEL	Inside	Outside	(
	Part No.	W	Р	W1	Α	В	С	D	(PCS)	Box(PCS)	Carton(PCS)	
Y	SMNR201610	8	4	3.5	8.4	60	13	178	2000	20,000	80,000	
	SMNR252012	8	4	3.5	8.4	60	13	178	2000	20,000	80,000	
	SMNR3010	8 c	4	3.5	8.4	60	13	178	2000	20,000	80,000	
	SMNR3012	, 8	4	3.5	8.4	60	13	178	2000	20,000	80,000	
	SMNR3015	8	4	3.5	8.4	60	13	178	2000	20,000	80,000	
	SMNR4010	12	8	5.5	12.4	100	13	330	5000	20,000	80,000	
	SMNR4012	12	8	5.5	12.4	100	13	330	4500	18,000	72,000	L
	SMNR4018	12	8	5.5	12.4	100	13	330	3000	12,000	48,000	1
K	SMNR4020	12	8	5.5	12.4	100	13	330	3000	12,000	48,000	
	SMNR4030	12	8	5.5	12.4	100	13	330	2000	8000	32,000	
	SMNR5020	12	1/8///	5.5	12.4	100	13	330	3000	12,000	48,000	
	SMNR5030	12	8	5.5	12.4	100	13	330	2000	8000 S	32,000	
	SMNR5040	12	8	5.5	12.4	100	13	330	1500	6000	24,000	
	SMNR6020	16	12	7.5	16.4	100	13	330	3000	9000	36,000	
	SMNR6028	16	12	7.5	16.4	100	13	330	2000	6000	24,000	
	SMNR6045	16	12	7.5.	16.4	100	13	330	1000	3000	12,000	
K,	SMNR8040	16	12	7.5	16.4	100	13	330	1000	3000	12,000	1
K	SMNR8060	16	12	7.5	16.4	100	13	330	800	2400	9600	1



◆可靠性测试:

Reliability Testing:

	31	remaining resuring:
Items	Requirements	Test Methods and Remarks
	1. Pulling test:	Solder the inductor to the testing jig using leadfree
	Define: A: sectional area of terminal	solder. Then apply a force in the
Terminal Strength	A≦8mm2 force≥5N time:30sec	Keep time: 10±1s Speed: 1.0mm/s.
Reference docu	8mm2 <a 10n="" 10sec<="" 20mm2="" force="" td="" time.="" ≤="" ≥=""><td>Force</td>	Force
ments: GB/T	20mm2 <a 10sec<="" force="" td="" time:="" ≥20n=""><td>1103</td>	1103
2423.60-2008	2.Solder paste thickness:0,12mm	
端子強度(SMT)	3.Meet the above requirements without any	177
N-IIIs	loose terminal	M-Ma
5)	1.Terminal diameter(d) mm 0.35 <d≤< td=""><td>Pull Force:the force shall be applied gradually to</td></d≤<>	Pull Force:the force shall be applied gradually to
	` '	the terminal and thenmaintained for 10 seconds.
	10sec2. Terminal diameter(d) mm0.50 < d≤	are terminal and thermaintained for 10 seconds.
erminal Strength	0.80Applied force:10N Duration:	
Reference docu	10sec3.Terminal diameter(d) mm0.80 < d <	Da Things
ments: GB/T	1.25Applied force:20N Duration:	-c
2423.60-2008	10sec4.Terminal diameter(d) mmD>	Pulling test
端子強度(DIP)	1.25Applied force:40N Duration.	
	10sec5.Meet the above requirements	
	without any loose terminal.	
- str		
	1.No visible mechanical damage.	1.Solder the inductor to the test jig (glass epoxy
}		board 2.shown in Using a leadfree solder. Then apply a
		force in the direction shown
		3.Flexure: 2mm.
Resistance to Flexure	cts cts	4.Pressurizing Speed: 0.5mm/sec.
JIS C 5321:1997	5	5.Keep time: 30 sec.
抗弯曲性试验		20 1
		10
		R230
cth	cth.	Flexure
3'	5'	45[1.772] 45[1.772]
 Dropping	1.No case deformation or change	1.Drop the packaged products from 1m high in 1
Reference documents:	inappearance.	angle, 3 ridges and 6surfaces, twice in each
GB/T 2423.7-2018	2.No short and no open.	direction.
落下試驗	5,	3,
		~ ` *
Solderability	1.No visible mechanical damage.	1.Solder temperture:240±2℃
Reference documents:	2. Victuring Strain exoced 70 70 Goverage for	2.Duration: 3 sec.
GB/T 2423.28-2005	3. Terminals must have 95% minimum solder	3. Solder: Sn/3.0Ag/0.5Cu.
可焊性试验		4.Flux: 25% Resin and 75% ethanol in weight
4 1.1 177 10/2/17	A STATE OF THE STA	A Property of the Control of the Con



	<u>G</u>	CN C
Items	Requirements	Test Methods and Remarks
	1.No visible mechanical damage.	1.Solder the inductor to the testing jig (glass epoxy
	2. Inductance change: Within ±10%.	boardshown in) using leadfree solder.
	3 Q factor change: Within ±20%.	2.The inductor shall be subjected to a simple
	Cu pad Solder mask	harmonic motion having total amplitude of 1.5mm,
		the frequency being varieduniformly between the
	wa wa wa wa	approximate limits of 10 and 55 Hz.
Vibration		3.The frequency range from 10 to 55 Hz and
Reference documents:		return to 10 Hz shallbe traversed in approximately
GB/T 2423.10-2019	Glass Epoxy Board	1 minute. This motion shall be applied for a period
振動試验		of 2 hours in each 3mutually perpendicular
		directions(total of 6 hours).
	M. m.	Freq
	DV.	55Hz \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
- *	-%,	
		10Hz V V V V Time
	Militar	
SKA	1.No visible mechanical damage.	1.Start at (85~125℃) for T time, rush to
	JX.	An-Zn: (-55~40℃) for T time as one cycle, go through100
Ì	Within $\leq 30\%$)	cycles
Thermal Shock	3.Q factor change: Within ±20%.	2.Transforming interval: Max. 20 sec.
Reference documents:	H-III	3.Tested cycle: 100 cycles.
GB/T 2423.22-2012	P	4. The chip shall be stabilized at normal condition
Method Na		for 1~2 hours 30 min. 30 min.
冷热冲击试验		125°C/85°C 35 11111.
		Townsetus
Str	St	55 c/-40 c 30 min. 20sec. (max.)
	ž.	X.
	1.No visible mechanical damage.	1.Temperature:M(-55~-40±2℃)
	2. Inductance change: Within ±10%.(Mn-Z	n: 2.Duration: 96±2 hours
	Within ≦30%)	3.The chip shall be stabilized at normal condition for
Low temperature Storage	3.Q factor change: Within ±20%.	1~2 hoursbefore measuring.
Reference documents:	~.**	Room
GB/T 2423.1-2008		Temp OSH Test
Method Ab	(V) ~	90H Time
低温储存试验	Shi	M'C CAN
	,X.	Temp Vow temperature
P		

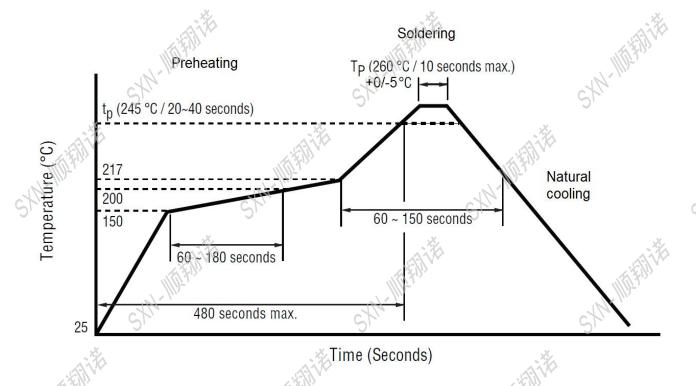


	SP'	SN C
Items	Requirements	Test Methods and Remarks
	1.No visible mechanical damage.	1.Temperature:N(125~85±2°ℂ).
High temperature	2. Inductance change: Within ±10%.(Mn-Zn:	2.Duration: 96±2 hours
Storage	Within ≦ 30%)	3. The chip shall be stabilized at normal condition
Reference documents:	3.Q factor change: Within ±20%.	for 1~2 hoursbefore measuring.
GB/T 2423.2-2008		Temp High temperature
Method Bb		NC SEEDING
高温储存试验		Room Temp
SKI	SKI	0 96H 97H 98H Time
	1.No visible mechanical damage.	1.Temperature: 60±2°ℂ
	2. Inductance change: Within ±10%.(Mn-Zn:	2.Humidity: 90% to 95% RH.
Damp Heat	Within ≦ 30%)	3.Duration: 96±2 hours.
(Steady States)	3.Q factor change: Within ±20%.	4.The chip shall be stabilized at normal condition
Reference documents:	or Sr	for 1~2 hoursbefore measuring.
GB/T 2423.3-2016	**	Temp & Humidity
恒定湿热试验	1:31/1/2	93%RH High temperature High humidity
	11/1/2/2	Conditions
CHI.	cth.	0 96H 97H 98H Time
Heat endurance of	1.No significant defects in appearance.	1.Refer to the above reflow curve and go through
Reflow soldering	2. △ L/L ≦ 10% (Mn-Zn: △ L/L ≦ 30%)	the reflow for twice.
Reference documents:	3. ∆ Q/Q≦30% (SMD series only)	2.The peak temperature : 260+0/-5℃
GJB 360B-2009	4. △ DCR/DCR≦10%	Dr. ,
回流焊耐热性试验	14 77	e Kr.
	No case deformation or change in	To dip parts into IPA solvent for 5±0.5Min,then
Resistance to solvent	appearance or obliteration of marking	drying them at room temp for 5Min,at last ,to
test		brushing making 10 times.
Reference documents:	(a) - My2.	1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m
IEC 68-2-45:1993 耐溶剂性试验	Str	gt.
Overload test	1.During the test no smoke, no peculiar,	
	smell, no fire	The state of the s
JIS C5311-6.13	2.The characteristic is normal after test	Apply twice as rated current for 5 minutes.
过负荷试验	Sr Sr	SK
voltage resistance test	1.During the test no breakdown	
Reference documents:	2.The characteristic is normal after test	
MIL-STD-202G Method	M-Ms	1. For parts with two coils
301	Sh	DC1000V, Current: 1mA, Time: 1Min. Refer to catalogue of specific products
绝缘耐压测试	36	b. Ixerer to catalogue of specific products
P		



◆推荐回流焊温度曲线

Recommended reflow soldering curve:



The recommended reflow conditions as above graph, is set according to our soldering equipment. DUE to various manufactures may have different reflow soldering equipment, products, process conditions, set methods. And so on, when setting the reflow conditions, Please adjust and confirm according to users' environment/equipment.



使用注意事项

REMINDERS FOR USING THESE PRODUCTS



● 保存时间为12 个月以内,保存条件(温度5~40°C以下、湿度35 ~ 66%RH 以下),需充分注意。 若超过保存时间,端子电极的可焊性将可能老化。

The storage period is within 12 months. Be sure to follow the storage conditions (temperature: 5~40°C, humidity: 35 to 65% RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.

• 请勿在气体腐蚀环境(盐、酸、碱等)下使用和保存。

Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).

• 手上的油脂会导致可焊性降低,应避免用手直接接触端子。

Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering Always ensure optimum conditions for soldering.

• 请小心轻拿轻放,避免由于产品的跌落或取出不当而导致的损坏。

Please always handle products carefully to prevent any damage caused bydropping down or inappropriate removing.

• 端子过度弯曲会导致断线,请不要过度弯曲端子。

Don't bend the terminals with excessive stress in case of any wire fracture.

• 不要清洗产品, 如需要清洗时请联系我司。

Don't rinse coils by yourself and please contact SXN if necessary.

• 请勿将本产品靠近磁铁或带有磁力的物体

Don't expose the products to magnets or magnetic fields

- 在实施焊接前,请务必进行预热。预热温度与焊接温度及芯片温度的温度差要在150°C 以内。 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- 安装后的焊接修正应在规格书规定的条件范围内。若加热过度可能导致短路、性能降低、寿命减少。 Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- 装置会因通电而自我发热(温度上升),因此在热设计方面需留有充分余地。
 Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- 非磁屏蔽型在基板设计时需注意配置线圈,受到电磁干扰可能会导致误动作。
 Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.