

SMD INDUCTORS FOR POWER CIRCUITS 贴片功率电感

SPN 系列

FEATURES

- With magnetic shield against radiation.
- Fe base metal material core provides large saturation current.
- Super low resistance with high current rating and high energy storage.
- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels.
- Suitable for surface mount equipment.

APPLICATIONS

- Power supply choke for smart phone, small electrical equipments such as VTR, LCD display, Note book, communication equipment, LED lighting, automotive system, OA equipments, Mother board, display card, sound card; Power supply or MP3, MP4, MP5, PDA, IPAD, DC-DC converter, DC-AC inverters etc.

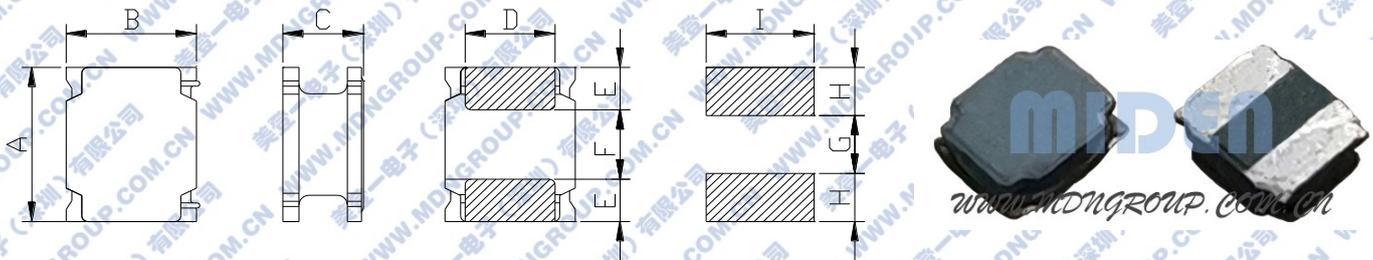
特 征

- 磁屏蔽结构，防止高频辐射干扰；
- 采用金属铁磁芯，具有更高的饱和电流；
- 超低的直流电阻及高额定电流和高能量储存；
- 导磁胶水涂覆结构极大减少了蜂鸣声；
- 适合表面贴装。

用 途

- 智能手机、录像机、液晶显示器、笔记本电脑、通讯设备、汽车产品、LED照明、电脑主机板、声卡、显卡、办公自动化设备的电源扼流；MP3、MP4、MP5、PDA、IPAD，直流-直流整流器，直流-交流换流器等电源供应器。

DIMENSIONS AND LAND PATTERNS(mm) AND SHAPES



TYPE	A±0.2	B±0.2	C(Max)	D±0.2	E±0.2	F±0.2	G(Ref)	H(Ref)	I(Ref)
SPN201610H-	2.0	1.6	1.0	1.2	0.60	0.80	0.70	0.70	1.70
SPN252010H-	2.5	2.0	1.0	1.5	0.80	0.80	0.80	0.85	2.00
SPN252012H-	2.5	2.0	1.2	1.5	0.80	0.80	0.80	0.85	2.00
SPN3012H-	3.0	2.0	1.2	2.5	0.75	1.50	1.50	0.80	2.70
SPN4012H-	4.0	4.0	1.2	3.3	0.95	2.10	1.90	1.10	3.70
SPN4020H-	4.0	4.0	2.0	3.3	0.95	2.10	1.90	1.10	3.70

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SPN201610H-SERIES

P/N	L(uH) Inductance @1MHz	SRF(MHz) Self-resonant Frequency	DCR(Ω) DC Resistance @20 $^{\circ}$ C		Isat(A) Inductance decrease current		Irms(A) Temperature rise current	
	$\pm 20\%$	Min	Max	Typ	Max	Typ	Max	Typ
R24M	0.24	145	0.040	0.0133	4.50	5.50	3.00	3.45
R47M	0.47	102	0.049	0.041	4.00	4.70	2.70	3.10
R68M	0.68	77	0.065	0.057	3.50	4.00	2.50	2.80
1R0M	1.0	70	0.090	0.075	3.35	3.85	2.05	2.35
1R0MY1	1.0	65	0.070	0.060	2.60	3.05	2.20	2.55
1R5M	1.5	45	0.130	0.110	1.95	2.30	1.70	2.00
2R2M	2.2	39	0.170	0.142	1.90	2.15	1.45	1.70
4R7M	4.7	25	0.425	0.370	1.20	1.50	0.90	1.00
100M	10	15	0.826	0.688	0.80	0.95	0.65	0.75

SPN252010H-SERIES

P/N	L(uH) Inductance @1MHz	SRF(MHz) Self-resonant Frequency	DCR(Ω) DC Resistance @20 $^{\circ}$ C		Isat(A) Inductance decrease current		Irms(A) Temperature rise current	
	$\pm 20\%$	Min	Max	Typ	Max	Typ	Max	Typ
R33M	0.33	117	0.039	0.033	4.80	5.50	3.50	4.05
R47M	0.47	80	0.045	0.038	4.40	5.20	3.20	3.70
R68M	0.68	65	0.059	0.049	3.20	3.60	2.75	3.20
1R0M	1.0	46	0.076	0.063	3.10	3.50	2.50	2.90
1R5M	1.5	40	0.106	0.088	2.60	3.00	2.00	2.30
2R2M	2.2	26	0.155	0.129	1.90	2.20	1.50	1.80
3R3M	3.3	24	0.235	0.196	1.60	1.80	1.20	1.40
4R7M	4.7	19	0.276	0.230	1.30	1.50	1.10	1.30
100M	10	12	0.500	0.435	0.90	1.00	0.80	0.90

Remark : Inductance decrease current: Value of inductance decrease within 30%.

Temperature rise current: A rise in temperature of core surface is within 40 $^{\circ}$ C.

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SPN 系列

SPN252012H-SERIES

P/N	L(Uh) Inductance @1MHz	SRF(MHz) Self-resonant Frequency	DCR(Ω) DC Resistance @20°C		Isat(A) Inductance decrease current		Irms(A) Temperature rise current	
	±20%	Min	Max	Typ	Max	Typ	Max	Typ
R33M	0.33	104	0.028	0.023	5.30	6.20	3.70	4.30
R47M	0.47	89	0.035	0.029	4.90	5.60	3.45	4.00
R68M	0.68	67	0.043	0.036	3.70	4.30	3.15	3.60
1R0M	1.0	52	0.054	0.048	3.60	4.20	3.00	3.40
1R5M	1.5	38	0.072	0.060	2.90	3.50	2.40	2.80
2R2M	2.2	32	0.120	0.100	2.60	3.00	1.90	2.15
2R2MY1	2.2	36	0.102	0.085	2.30	2.70	2.10	2.40
4R7M	4.7	23	0.260	0.225	1.60	1.90	1.25	1.45
100M	10	14	0.480	0.435	1.10	1.35	0.85	1.00

SPN3012H-SERIES

P/N	L(uH) Inductance @1MHz	SRF(MHz) Self-resonant Frequency	DCR(Ω) DC Resistance @20°C		Isat(A) Inductance decrease current		Irms(A) Temperature rise current	
	±20%	Min	Max	Typ	Max	Typ	Max	Typ
1R0M	1.0	37	0.054	0.045	4.20	5.40	2.70	3.10
4R7M	4.7	19	0.235	0.196	2.00	2.50	1.30	1.50

SPN4012H-SERIES

P/N	L(uH) Inductance @1MHz	SRF(MHz) Self-resonant Frequency	DCR(Ω) DC Resistance @20°C		Isat(A) Inductance decrease current		Irms(A) Temperature rise current	
	±20%	Min	Max	Typ	Max	Typ	Max	Typ
R33M	0.33	129	0.036	0.030	8.30	9.70	3.10	3.50
100M	10	12	0.345	0.290	1.50	1.85	1.30	1.50
220M	22	7	0.708	0.590	1.15	1.35	0.70	0.80

SPN4020H-SERIES

P/N	L(uH) Inductance @1MHz	SRF(MHz) Self-resonant Frequency	DCR(Ω) DC Resistance @20°C		Isat(A) Inductance decrease current		Irms(A) Temperature rise current	
	±20%	Min	Max	Typ	Max	Typ	Max	Typ
1R0M	1.0	36	0.030	0.025	7.80	9.00	5.50	6.50
2R2M	2.2	24	0.048	0.040	5.60	6.80	4.20	5.00
3R3M	3.3	18	0.072	0.060	4.60	5.40	3.50	4.00

Remark : Inductance decrease current: Value of inductance decrease within 30%.

Temperature rise current: A rise in temperature of core surface is within 40°C.