

SMS Series

SMD POWER INDUCTOR

SMS型贴片功率电感

特征及应用

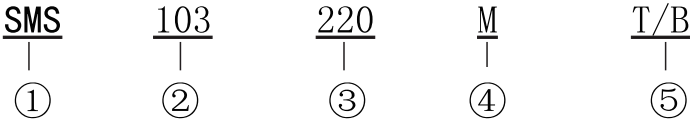
- 使用载带包装运用于SMT。
- 耐大电流，低直流电阻，方形；宽度：6.3mm～10.6mm，高度：3.0mm～5.0mm。
- 磁性屏蔽结构。
- 适用于回流焊SMT工艺。
- 无铅产品，符合ROHS指令。
- 广泛应用于数码产品，扫描仪，升降压转换，磁带录像机电源，液晶显示组件，便携式终端设备，笔记本电脑，电脑及电脑周边等。

FEATURES/APPLICATIONS

- Carrier tape packing use for SMT
- High rated current & Low DCR, Quadrate; width: 6.3mm ~ 10.6mm Height: 3.0mm ~ 5.0mm
- Magnetically shielded construction.
- Suitable for reflow SMT Craft soldering.
- Lead free products, ROHS compliant.
- Widely use in Dingital camera & Scanner/DC-DC converter/power supply for VTP/LCD monitor/ Portabie terminal equipment /Notebook/PC and peripheral equipments etc.

产品标示范

PRODUCT INDICATION

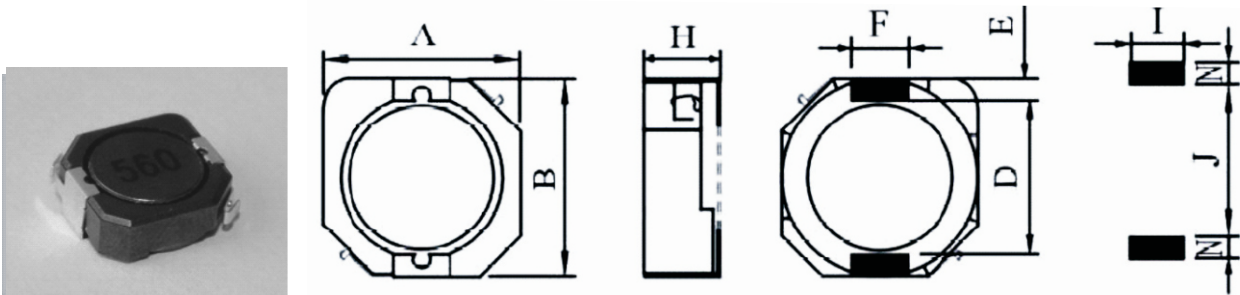


- ①产品类型：SMS型。
- ②外观尺寸：方形，10表示宽充10.00mm
3表示高度3.0mm。
- ③电气特性表示220表示22 μ H。
- ④允许公差：M表示 $\pm 20\%$ ，K表示 $\pm 10\%$ 。
- ⑤包装方式：T表示载带盘装；B表示袋装。

- ①Product type: SMS type.
- ②External dimensions: Quadrate, 10 for Length 10.00mm, 3 for Height 3.0mm.
- ③Electrical code: 220 for 22 μ H.
- ④Tolerance: M for $\pm 20\%$, K for $\pm 10\%$.
- ⑤Packing style: T for carrier tape reel; B for in bulk

外形尺寸（单位：mm）

SHAPE AND DIMENSIONS (unit:mm)



贴装尺寸 Land patterns

型号TYPE	A (± 0.3)	B (± 0.2)	H (± 0.2)	D (± 0.2)	E (± 0.2)	F (± 0.2)	N	I	J
SMS63R	6.2	6.3	3.0	4.7	0.62	2.0	1.0	3.0	4.2
SMS103R	10.3	10.4	3.0	7.7	1.2	3.0	2.0	4.0	7.0
SMS104R	10.3	10.4	4.0	7.7	1.2	3.0	2.0	4.0	7.0
SMS105R	10.3	10.4	5.0	7.7	1.3	3.0	2.0	4.0	7.0

SMS Series SMD Shielded Power Inductors

电气性能 Electrical Characteristics -SMV63 Series

Part No 产品编号	Test condition 测试条件	Inductance 电感 (μ H)	Toierance 公差 (%)	DC Resistance 直流电阻 (Ω) MAX	Rated DC current 额定电流 (A) MAX
SMS63R-2R5N	100kHz/0.1V	2.0	±30	0.0176	2.60
SMS63R-3R3N	100kHz/0.1V	3.3	±30	0.0203	2.30
SMS63R-4R0N	100kHz/0.1V	4	±30	0.0270	2.10
SMS63R-5R0N	100kHz/0.1V	5	±30	0.0311	1.85
SMS63R-6R0N	100kHz/0.1V	6	±30	0.0419	1.70
SMS63R-8R0N	100kHz/0.1V	8	±30	0.0499	1.50
SMS63R-100M	100kHz/0.1V	10	±20	0.0540	1.30
SMS63R-120M	100kHz/0.1V	12	±20	0.0716	1.20
SMS63R-150M	100kHz/0.1V	15	±20	0.0824	1.10
SMS63R-180M	100kHz/0.1V	18	±20	0.1015	1.05
SMS63R-220M	100kHz/0.1V	22	±20	0.1190	0.95
SMS63R-270M	100kHz/0.1V	27	±20	0.1460	0.85
SMS63R-330M	100kHz/0.1V	33	±20	0.1825	0.76
SMS63R-390M	100kHz/0.1V	39	±20	0.2095	0.68
SMS63R-470M	100kHz/0.1V	47	±20	0.2295	0.60
SMS63R-560M	100kHz/0.1V	56	±20	0.3050	0.55
SMS63R-680M	100kHz/0.1V	68	±20	0.3510	0.48
SMS63R-820M	100kHz/0.1V	82	±20	0.4185	0.45
SMS63R-101M	100kHz/0.1V	100	±20	0.5200	0.40

※超出以上规格的特殊要求也可以满足。Special inquiries besides the above common used types can be meet.

电气性能 Electrical Characteristics -SMV103 Series

Part No 产品编号	Test condition 测试条件	Inductance 电感 (μ H)	Toierance 公差 (%)	DC Resistance 直流电阻 (Ω) MAX	Rated DC current 额定电流 (A) MAX
SMS103R-100M	100kHz/0.1V	10	±20	0.0581	2.70
SMS103R-120M	100kHz/0.1V	12	±20	0.0721	2.25
SMS103R-150M	100kHz/0.1V	15	±20	0.0864	2.22
SMS103R-180M	100kHz/0.1V	18	±20	0.1161	1.90
SMS103R-220M	100kHz/0.1V	22	±20	0.1454	1.78
SMS103R-270M	100kHz/0.1V	27	±20	0.1759	1.63
SMS103R-330M	100kHz/0.1V	33	±20	0.2134	1.50
SMS103R-390M	100kHz/0.1V	39	±20	0.2689	1.32
SMS103R-470M	100kHz/0.1V	47	±20	0.2986	1.18
SMS103R-560M	100kHz/0.1V	56	±20	0.3358	1.10
SMS103R-680M	100kHz/0.1V	68	±20	0.4513	1.04
SMS103R-820M	100kHz/0.1V	82	±20	0.5138	0.94
SMS103R-101M	100kHz/0.1V	100	±20	0.7000	0.84
SMS103R-121M	100kHz/0.1V	120	±20	0.7650	0.76
SMS103R-151M	100kHz/0.1V	150	±20	0.8760	0.70

※超出以上规格的特殊要求也可以满足。Special inquiries besides the above common used types can be meet.

电气性能 Electrical Characteristics -SMV104 Series

Part No 产品编号	Test condition 测试条件	Inductance 电感 (μ H)	Toierance 公差 (%)	DC Resistance 直流电阻 (Ω) MAX	Rated DC current 额定电流 (A) MAX
SMS104R-1R3N	100kHz/0.1V	1.3	±30	0.008	10.00
SMS104R-2R5N	100kHz/0.1V	2.5	±30	0.010	7.50
SMS104R-3R8N	100kHz/0.1V	3.8	±30	0.013	6.00
SMS104R-5R2N	100kHz/0.1V	5.2	±30	0.022	5.50
SMS104R-7R0N	100kHz/0.1V	7.0	±30	0.027	4.80
SMS104R-100M	100kHz/0.1V	10	±20	0.035	4.40
SMS104R-150M	100kHz/0.1V	15	±20	0.050	3.60
SMS104R-220M	100kHz/0.1V	22	±20	0.073	2.90
SMS104R-330M	100kHz/0.1V	33	±20	0.093	2.30
SMS104R-470M	100kHz/0.1V	47	±20	0.128	2.10
SMS104R-680M	100kHz/0.1V	68	±20	0.213	1.50
SMS103R-101M	100kHz/0.1V	100	±20	0.304	1.35
SMS103R-151M	100kHz/0.1V	150	±20	0.506	1.15
SMS103R-221M	100kHz/0.1V	220	±20	0.756	0.92
SMS103R-331M	100kHz/0.1V	330	±20	1.090	0.70

※超出以上规格的特殊要求也可以满足。Special inquiries besides the above common used types can be meet.

电气性能 Electrical Characteristics -SMV105 Series

Part No 产品编号	Test condition 测试条件	Inductance 电感 (μ H)	Toierance 公差 (%)	DC Resistance 直流电阻 (Ω) MAX	Rated DC current 额定电流 (A) MAX
SMS105R-100M	100kHz/0.1V	10	±20	0.0258	3.45
SMS105R-120M	100kHz/0.1V	12	±20	0.0320	3.40
SMS105R-150M	100kHz/0.1V	15	±20	0.0400	2.83
SMS105R-180M	100kHz/0.1V	18	±20	0.0460	2.62
SMS105R-220M	100kHz/0.1V	22	±20	0.0585	2.44
SMS105R-270M	100kHz/0.1V	27	±20	0.0654	2.24
SMS105R-330M	100kHz/0.1V	33	±20	0.0814	1.88
SMS105R-390M	100kHz/0.1V	39	±20	0.1031	1.70
SMS105R-470M	100kHz/0.1V	47	±20	0.1221	1.56
SMS105R-560M	100kHz/0.1V	56	±20	0.1448	1.39
SMS105R-680M	100kHz/0.1V	68	±20	0.1930	1.36
SMS105R-820M	100kHz/0.1V	82	±20	0.2194	1.20
SMS105R-101M	100kHz/0.1V	100	±20	0.2470	1.09
SMS105R-121M	100kHz/0.1V	120	±20	0.2984	1.00
SMS105R-151M	100kHz/0.1V	150	±20	0.3351	0.91
SMS105R-181M	100kHz/0.1V	180	±20	0.3934	0.84
SMS105R-221M	100kHz/0.1V	220	±20	0.4838	0.75
SMS105R-271M	100kHz/0.1V	270	±20	0.6325	0.68
SMS105R-331M	100kHz/0.1V	330	±20	0.7800	0.60
SMS105R-391M	100kHz/0.1V	390	±20	0.9575	0.57
SMS105R-471M	100kHz/0.1V	470	±20	1.2204	0.50
SMS105R-561M	100kHz/0.1V	560	±20	1.3524	0.47
SMS105R-681M	100kHz/0.1V	680	±20	1.5192	0.43
SMS105R-821M	100kHz/0.1V	820	±20	1.6944	0.39
SMS105R-102M	100kHz/0.1V	1000	±20	1.9644	0.35

※超出以上规格的特殊要求也可以满足。Special inquiries besides the above common used types can be meet.

- 备注 Notes:
- 电感值测试仪： HP4286A/VR1153或同等LCR Meter。
Inductance instrument:HP4286A or LCR Meter equivalent.

● 电感测试条件： 1kHz/100kHz。
Inductance testing condition:1kHz/100kHz .

● 电阻测试仪VR1153或同等的DCR测试设备。
DCR instrument: VR1153 or DCR test equipment equivalent.

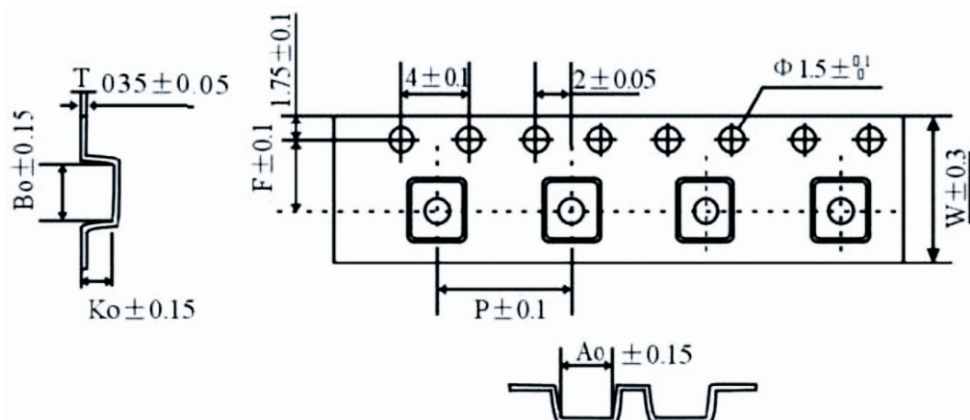
● 额定电流测试： VR7210 & VR1153。
Rated Current test:VR7210 & VR1153.

● 额定电流定义： 电感下降20%或温度上升40℃时取其最小值作为额定电流。
Rated Current definition:Inductance drop by 20% or temperature rise by 40℃, the iesser of the minimum as the rated current.

● 贮藏温度： -25℃～80℃；相对湿度： RH65%～85%。
Temperature storage range:-25℃～80℃;the relative humidity:RH65%～85%.

SMS TYPE PACKING SMS型包装规格

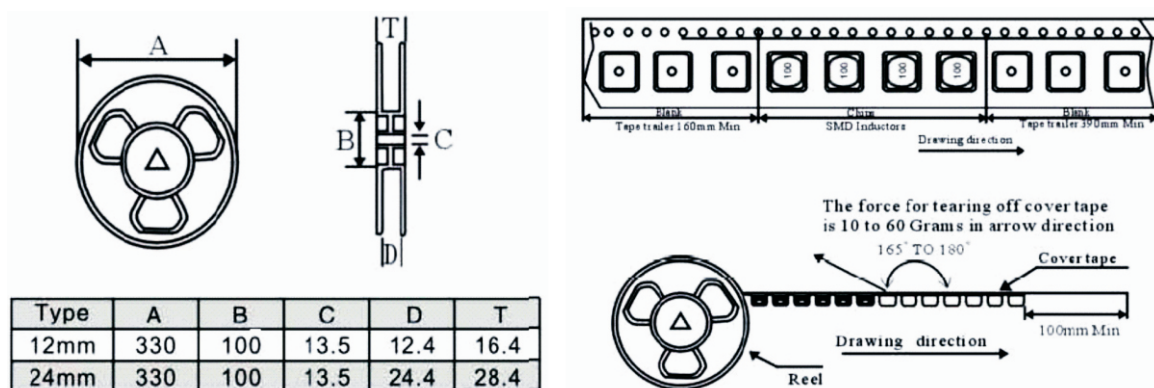
编带尺寸 Dimensions of tape(unit:mm)



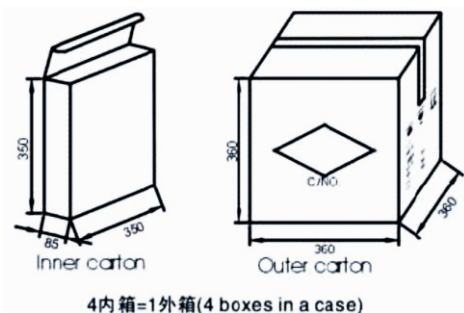
型号Type	尺寸Dimensions						带轮Reel	Quantities(数量) PCS/reel(每卷)
	A0	B0	W	P	F	K0		
SMS63R	6.50	6.50	12.00	8.00	5.50	3.20	330*12	2000
SMS103R	10.80	10.80	24.00	16.00	11.50	3.20	330*24	1000
SMS104R	10.80	10.80	24.00	16.00	11.50	4.20	330*24	1000
SMS105R	10.80	10.80	24.00	16.00	11.50	5.20	330*24	500

※超出以上规格的特殊要求也可以满足。Special inquiries besides the above common used types can be meet.

带轮尺寸 Dimensions of Reel(unit:mm) 编带简图及拉伸方向 Taping figures and drawing direction



包装箱盒尺寸 BOX and case dimensions (unit:mm) 包装数量 Packag quantities(unit:PCS)



型号Type	Quantities(数量)	Quantities(数量)
	Inner carton内箱	Outer carton 外箱
SMS63R	4/6000	4/24K
SMS103R	4/2000	4/8K
SMS104R	4/2000	4/8K
SMS105R	4/1000	4/4K