



# MS-M 系列功率电感 MS-M Series SMD Power Inductors



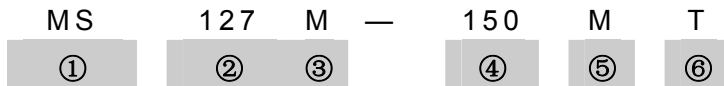
## 特征 FEATURES

- 大电流
- 磁屏蔽结构
- 适合于表面贴装,适合于回流焊
- 可根据客户要求设计
- High saturation current
- Magnetic shielded
- SMT type, suitable for solder reflow
- Design according to customer requirements

## 应用 APPLICATIONS

- 办公自动化设备,笔记本电脑
- LCD 电视
- DC/DC 转换
- OA equipment , Notebook Computer
- LCD televisions
- DC/DC converters

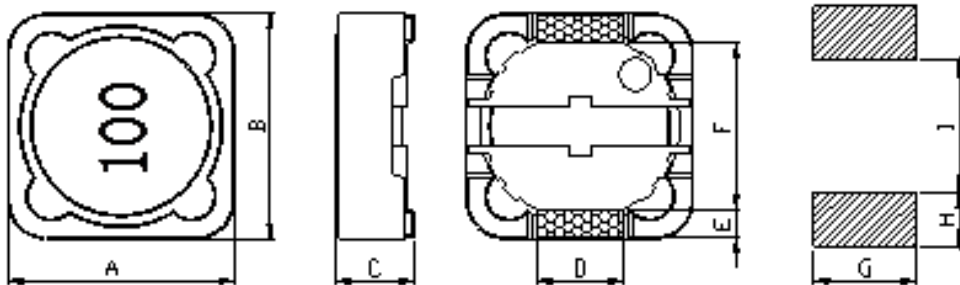
## 产品型号规格表示方法 ORDERING CODE



①		②		③	④		⑤	⑥
产品代号 Code	MS-M 系列 功率电感	规格尺寸 Dimensions (L×W×T) (mm)		锰锌材质 Mn-Zn materials	感量(μH) Inductance		误差 Tolerance	包装方式 Packaging Style
MS-M		73	7.3×7.3×3.4		150	15	K ±10%	T Tape&Reel
		74	7.3×7.3×4.2		101	100		
		124	12.2×12.2×4.5		102	1000		
		125	12.2×12.2×5.7					
		127	12.2×12.2×7.5					

## 外形尺寸 Dimensions

单位(Unit): mm



型号 Part	A	B	C	D	E
MS73M	7.3±0.3	7.3±0.3	3.4±0.3	5.0	2.0
MS74M	7.3±0.3	7.3±0.3	4.2±0.3	5.0	2.0
MS124M	12.2±0.4	12.2±0.4	4.5±0.3	7.6	5.0
MS125M	12.2±0.4	12.2±0.4	5.7±0.3	7.6	5.0
MS127M	12.2±0.4	12.2±0.4	7.5±0.3	7.6	5.0



## 电性能参数 Electrical Characteristics

### MS73M Series

Part Number	Inductance ( $\mu\text{H}$ )	Tolerance	Test Freq.	DCR ( $\Omega$ )Max	Isat(A)
MS73M-1R0NT	1.0	$\pm 30\%$	1kHz	0.025	4.68
MS73M-1R5NT	1.5	$\pm 30\%$	1kHz	0.028	3.90
MS73M-2R2NT	2.2	$\pm 30\%$	1kHz	0.035	3.25
MS73M-3R3NT	3.3	$\pm 30\%$	1kHz	0.038	2.60
MS73M-4R7NT	4.7	$\pm 30\%$	1kHz	0.040	2.37
MS73M-5R2NT	5.2	$\pm 30\%$	1kHz	0.057	2.34
MS73M-6R8NT	6.8	$\pm 30\%$	1kHz	0.058	2.21
MS73M-100MT	10	$\pm 20\%$	1kHz	0.072	2.18
MS73M-150MT	15	$\pm 20\%$	1kHz	0.130	1.73
MS73M-220MT	22	$\pm 20\%$	1kHz	0.190	1.39
MS73M-330MT	33	$\pm 20\%$	1kHz	0.240	1.18
MS73M-390MT	39	$\pm 20\%$	1kHz	0.320	1.00
MS73M-470MT	47	$\pm 20\%$	1kHz	0.360	0.99
MS73M-560MT	56	$\pm 20\%$	1kHz	0.470	0.88
MS73M-680MT	68	$\pm 20\%$	1kHz	0.520	0.79
MS73M-820MT	82	$\pm 20\%$	1kHz	0.690	0.74
MS73M-101MT	100	$\pm 20\%$	1kHz	0.790	0.65

### MS74M Series

Part Number	Inductance ( $\mu\text{H}$ )	Tolerance	Test Freq.	DCR ( $\Omega$ )Max	Isat(A)
MS74M-1R0NT	1.0	$\pm 30\%$	1kHz	0.022	7.80
MS74M-2R2NT	2.2	$\pm 30\%$	1kHz	0.030	3.90
MS74M-3R3NT	3.3	$\pm 30\%$	1kHz	0.035	3.64
MS74M-4R7NT	4.7	$\pm 30\%$	1kHz	0.040	3.25
MS74M-6R8NT	6.8	$\pm 30\%$	1kHz	0.050	2.73
MS74M-8R2NT	8.2	$\pm 30\%$	1kHz	0.060	2.60
MS74M-100MT	10	$\pm 20\%$	1kHz	0.049	2.39
MS74M-120MT	12	$\pm 20\%$	1kHz	0.058	2.22
MS74M-150MT	15	$\pm 20\%$	1kHz	0.081	1.91
MS74M-180MT	18	$\pm 20\%$	1kHz	0.091	1.70
MS74M-220MT	22	$\pm 20\%$	1kHz	0.110	1.60
MS74M-330MT	33	$\pm 20\%$	1kHz	0.170	1.25
MS74M-390MT	39	$\pm 20\%$	1kHz	0.230	1.18
MS74M-470MT	47	$\pm 20\%$	1kHz	0.260	1.14
MS74M-560MT	56	$\pm 20\%$	1kHz	0.350	0.98
MS74M-680MT	68	$\pm 20\%$	1kHz	0.380	0.90
MS74M-820MT	82	$\pm 20\%$	1kHz	0.430	0.79
MS74M-101MT	100	$\pm 20\%$	1kHz	0.610	0.78

### MS124M Series



Part Number	Inductance(μH)	Tolerance	Test Freq.	DCR (Ω)Max	Isat(A)
MS124M-1R0NT	1.0	±30%	100kHz	0.008	15.60
MS124M-3R9NT	3.9	±30%	100kHz	0.018	8.45
MS124M-4R7NT	4.7	±30%	100kHz	0.022	7.41
MS124M-6R2NT	6.2	±30%	100kHz	0.028	6.37
MS124M-6R8NT	6.8	±30%	100kHz	0.028	6.37
MS124M-100MT	10	±20%	100kHz	0.035	5.85
MS124M-150MT	15	±20%	100kHz	0.050	4.16
MS124M-180MT	18	±20%	100kHz	0.057	4.03
MS124M-220MT	22	±20%	100kHz	0.066	3.77
MS124M-330MT	33	±20%	100kHz	0.097	3.51
MS124M-390MT	39	±20%	100kHz	0.132	2.73
MS124M-470MT	47	±20%	100kHz	0.150	2.47
MS124M-560MT	56	±20%	100kHz	0.190	2.34
MS124M-680MT	68	±20%	100kHz	0.220	1.95
MS124M-820MT	82	±20%	100kHz	0.260	1.69
MS124M-101MT	100	±20%	100kHz	0.308	1.56
MS124M-121MT	120	±20%	100kHz	0.380	1.43
MS124M-151MT	150	±20%	100kHz	0.530	1.24
MS124M-221MT	220	±20%	100kHz	0.700	1.04
MS124M-271MT	270	±20%	100kHz	0.876	0.78
MS124M-331MT	330	±20%	100kHz	0.990	0.65
MS124M-471MT	470	±20%	100kHz	1.300	0.52

### MS125M Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	Isat(A)
MS125M-1R3NT	1.3	±30%	100kHz	0.012	10.40
MS125M-2R1NT	2.1	±30%	100kHz	0.014	9.10
MS125M-3R1NT	3.1	±30%	100kHz	0.017	7.80
MS125M-4R4NT	4.4	±30%	100kHz	0.020	6.50
MS125M-5R8NT	5.8	±30%	100kHz	0.021	5.72
MS125M-7R5NT	7.5	±30%	100kHz	0.024	5.46
MS125M-100MT	10	±20%	1kHz	0.025	5.20
MS125M-120MT	12	±20%	1kHz	0.027	4.55
MS125M-150MT	15	±20%	1kHz	0.030	4.29
MS125M-220MT	22	±20%	1kHz	0.042	3.64
MS125M-330MT	33	±20%	1kHz	0.065	2.73
MS125M-390MT	39	±20%	1kHz	0.068	2.60
MS125M-470MT	47	±20%	1kHz	0.075	2.34
MS125M-560MT	56	±20%	1kHz	0.110	2.21
MS125M-680MT	68	±20%	1kHz	0.120	1.95
MS125M-820MT	82	±20%	1kHz	0.140	1.82
MS125M-101MT	100	±20%	1kHz	0.198	1.69
MS125M-151MT	150	±20%	1kHz	0.230	1.30



MS125M-221MT	220	±20%	1kHz	0.400	1.04
MS125M-331MT	330	±20%	1kHz	0.510	0.88
MS125M-391MT	390	±20%	1kHz	0.690	0.85
MS125M-471MT	470	±20%	1kHz	0.770	0.75
MS125M-561MT	560	±20%	1kHz	0.860	0.70
MS125M-681MT	680	±20%	1kHz	1.200	0.62
MS125M-821MT	820	±20%	1kHz	1.340	0.56
MS125M-102MT	1000	±20%	1kHz	1.900	0.52

### MS127M Series

Part Number	Inductance(μH)	Tolerance	Test Freq.	DCR (Ω)Max	Isat(A)
MS127M-1R0NT	1.0	±30%	100kHz	0.0070	12.74
MS127M-1R5NT	1.5	±30%	100kHz	0.0100	11.70
MS127M-2R2NT	2.2	±30%	100kHz	0.0115	9.75
MS127M-3R3NT	3.3	±30%	100kHz	0.0135	9.75
MS127M-4R7NT	4.7	±30%	100kHz	0.0158	8.84
MS127M-6R1NT	6.1	±30%	100kHz	0.0176	8.58
MS127M-7R6NT	7.6	±30%	100kHz	0.0200	7.67
MS127M-100MT	10	±20%	1kHz	0.0216	7.02
MS127M-150MT	15	±20%	1kHz	0.0270	5.85
MS127M-220MT	22	±20%	1kHz	0.0432	4.68
MS127M-330MT	33	±20%	1kHz	0.0648	3.90
MS127M-390MT	39	±20%	1kHz	0.0729	3.58
MS127M-470MT	47	±20%	1kHz	0.1000	3.25
MS127M-560MT	56	±20%	1kHz	0.1100	3.06
MS127M-680MT	68	±20%	1kHz	0.1400	2.73
MS127M-820MT	82	±20%	1kHz	0.1600	2.54
MS127M-101MT	100	±20%	1kHz	0.2200	2.21
MS127M-121MT	120	±20%	1kHz	0.2500	2.08
MS127M-151MT	150	±20%	1kHz	0.2800	1.85
MS127M-221MT	220	±20%	1kHz	0.3900	1.51
MS127M-331MT	330	±20%	1kHz	0.6400	1.24
MS127M-391MT	390	±20%	1kHz	0.7000	1.14
MS127M-471MT	470	±20%	1kHz	0.9800	1.03
MS127M-561MT	560	±20%	1kHz	1.0700	0.95
MS127M-681MT	680	±20%	1kHz	1.4600	0.87
MS127M-821MT	820	±20%	1kHz	1.6400	0.78
MS127M-102MT	1000	±20%	1kHz	1.8200	0.72

Isat: 饱和电流, 加 Isat 时, 电感量≤20%

Isat: Saturation Current, the current when the inductance becomes 20% lower than its initial value.