

# SMD Multilayer Power Inductors

## POWER INDUCTORS

### PRODUCT CATALOG



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# SMD Multilayer Power Inductors

## ◎ Product introduction 產品介紹

- Excellent solderability and heat resistance for either flow or reflow soldering  
良好的可焊性和耐焊性
- Low profile and High current and Small size  
小尺寸低輪廓高電流
- Magnetically shielded configuration allowing for high density mounting  
高密度磁屏蔽結構
- For RoHS instructions corresponding products  
為RoHS指令對應產品



## ◎ Product application 產品應用

- DC-DC Converters、Power modules、Cellular phones、Wireless card and other electronic devices  
DC-DC變換器、電源模塊、手機、無線網卡和其它電子設備

## ◎ Product Identification 產品標識

MVD 20A0 2R2 M T

MVD-----Series name 系列名稱

20A0-----Dimension 產品尺寸

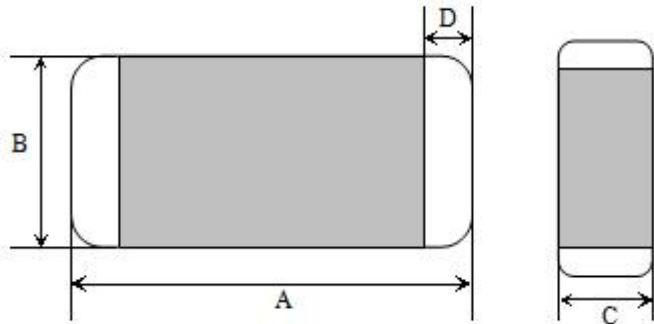
2R2-----Inductance 電感值【2R2=2.2  $\mu$ H】

M-----Tolerance 公差【J=5% , K=10% , M= 20% ,T= 30%】

T-----Taping 編帶盤裝

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## ◎Shape&Dimensions 形狀與尺寸：

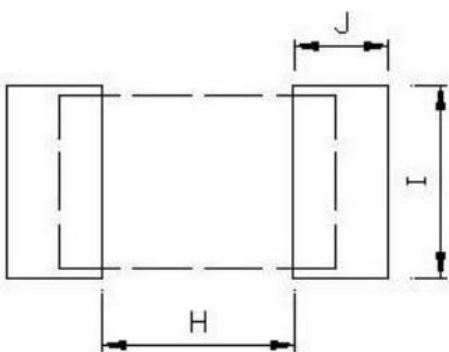


UNIT: mm

PART NUMBER	A	B	C	D	CHIPS REEL
0603	1.60±0.20	0.80±0.20	0.80±0.20	0.30±0.20	4K
0805	2.00±0.20	1.25±0.20	0.85±0.20 1.15±0.20	0.50±0.30	4K
0806	2.00±0.20	1.60±0.20	0.80±0.20	0.50±0.30	4K
1008	2.50±0.20	2.00±0.30	0.85±0.20	0.50±0.30	4K
1206	3.20±0.20	1.60±0.30	1.10±0.30	0.50±0.30	3K

## ◎Recommender Land Pattern 推薦焊盤布局：

UNIT: mm



PART NUMBER	H	I	J
0603	0.6	1.1	0.9
0805	0.8	1.5	1.5
0806	0.8	1.8	1.5
1008	1	2.3	1.6
1206	1.2	1.8	1.6

# SMD Multilayer Power Inductors

◎ Detailed specifications and parameters are introduced

詳細規格及參數介紹

ORDERING CORE	Inductance ( $\mu\text{H}$ ) at 1MHz 600mV	Tolerance ( $\pm\%$ )	DC Resistance ( $\Omega$ )MAX	SRF(MHz) MIN	IRMS (mA)MAX
MVD0603-1R0M-A10T	1	20%	0.234	125	1000
MVD0603-1R5M-A08T	1.5	20%	0.286	109	800
MVD0603-2R2M-A07T	2.2	20%	0.390	90	700
MVD0603-3R3M-A06T	3.3	20%	0.520	70	600
MVD0603-4R7M-A05T	4.7	20%	0.650	50	500
MVD0603-6R8M-A04T	6.8	20%	0.975	40	400
MVD0603-100M-A04T	10	20%	1.040	33	400
MVD0603-150M-A022T	15	20%	1.170	20	220
MVD0603-220M-A02T	22	20%	1.300	15	200

TEST INSTRUMENTS:

Inductance : Agilent HP 4287A+16197A

RDC : HP 4338B

Operating temperature range— $55^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (Including self - temperature rise)

Isat for Inductance drop 30% from its value with current

Irms for a  $40^{\circ}\text{C}$  temperature rise from  $25^{\circ}\text{C}$  ambient with current

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ORDERING CORE	Inductance ( $\mu$ H) at 1MHz 600mV	Tolerance ( $\pm$ %)	DC Resistance ( $\Omega$ )MAX	SRF(MHz) MIN	IRMS (mA)MAX
MVD0805-1R0M-A14T	1	20%	0.195	75	1400
MVD0805-1R5M-A13T	1.5	20%	0.208	60	1300
MVD0805-2R2M-A12T	2.2	20%	0.260	50	1200
MVD0805-3R3M-A11T	3.3	20%	0.286	41	1100
MVD0805-4R7M-A10T	4.7	20%	0.325	35	1000
MVD0805-100M-A05T	10	20%	0.650	24	500
MVD0805-220M-A03T	22	20%	0.910	18	300

TEST INSTRUMENTS:

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Irms for a 40°C temperature rise from 25°C ambient with current

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詳細規格及參數介紹

ORDERING CORE	Inductance ( $\mu$ H) at 1MHz 600mV	Tolerance ( $\pm$ %)	DC Resistance ( $\Omega$ )MAX	SRF(MHz) MIN	IRMS (mA)MAX
MVD0806-1R0M-A14T	1	20%	0.143	60	1400
MVD0806-1R5M-A12T	1.5	20%	0.195	50	1200
MVD0806-2R2M-A12T	2.2	20%	0.195	40	1200
MVD0806-3R3M-A12T	3.3	20%	0.260	30	1200
MVD0806-4R7M-A11T	4.7	20%	0.325	20	1100

TEST INSTRUMENTS:

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ORDERING CORE	Inductance ( $\mu\text{H}$ ) at 1MHz 600mV	Tolerance ( $\pm\%$ )	DC Resistance ( $\Omega$ )MAX	SRF(MHz) MIN	IRMS (mA)MAX
MVD1008-1R0M-A16T	1	20%	0.130	60	1600
MVD1008-1R5M-A15T	1.5	20%	0.143	50	1500
MVD1008-2R2M-A15T	2.2	20%	0.156	40	1500
MVD1008-3R3M-A13T	3.3	20%	0.195	30	1300
MVD1008-4R7M-A13T	4.7	20%	0.325	20	1300

TEST INSTRUMENTS:

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ORDERING CORE	Inductance ( $\mu\text{H}$ ) at 1MHz 600mV	Tolerance ( $\pm\%$ )	DC Resistance ( $\Omega$ )MAX	SRF(MHz) MIN	IRMS (mA)MAX
MVD1206-1R0M-A16T	1	20%	0.130	90	1600
MVD1206-1R5M-A15T	1.5	20%	0.156	75	1500
MVD1206-2R2M-A13T	2.2	20%	0.195	58	1300
MVD1206-3R3M-A12T	3.3	20%	0.260	49	1200
MVD1206-4R7M-A098T	4.7	20%	0.416	41	980
MVD1206-100M-A067T	10	20%	0.650	28	670

TEST INSTRUMENTS:

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RDC : HP 4338B

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