

# YCMS系列

## YCMS SERIES SMD POWER INDUCTORS

### ■ YCMS

#### YCMS SERIES SMD POWER INDUCTORS



#### • 特征 FEATURES

- 大電流; • High saturation current
- 屏蔽結構; • Magnetic shielded
- 適合于表面貼裝, 適合于回流焊。 • SMT type, suitable for reflow soldering.

#### • 應用APPLICATION:

- 辦公自動化設備, 筆記本電腦; • OA equipment, Notebook Computer
- LCD電視; • LCD televisions
- DC/DC轉換。 • DC/DC converters etc.

#### • 產品規格型號的表示方法 ORDERING CODE

YCMS    127    —    101    M    T  
 ①        ②        ③        ④        ⑤

①

②

③

④

⑤

產品代號 Product Code	
YCMS	系列 功率電感

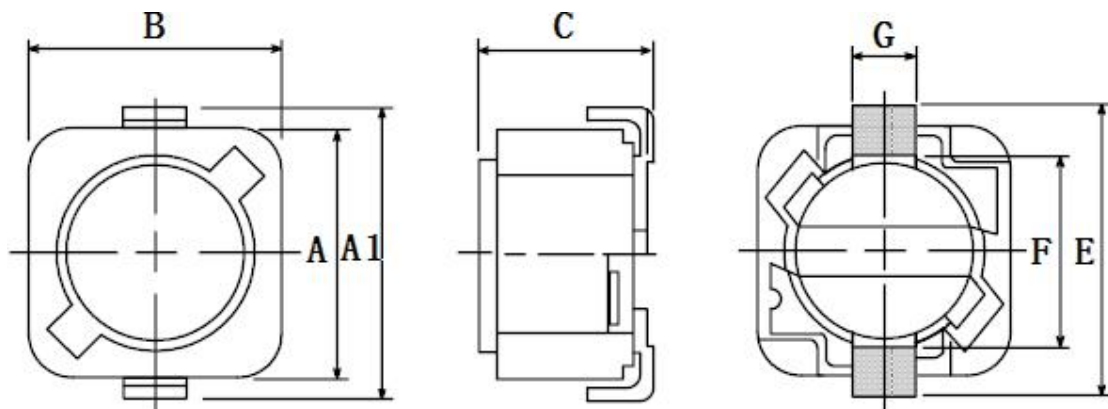
規格尺寸(L×W×T) Dimensions (L×W×T) (mm)	
73	7.3×7.3×3.4
74	7.3×7.3×4.2
124	12.2×12.2×4.5
127	12.2×12.2×7.5

電感量(μH) Inductance	
150	15
101	100
102	1000

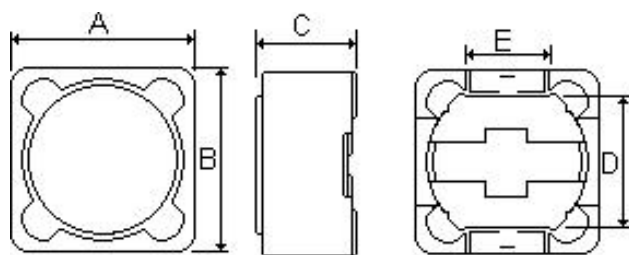
誤差 Tolerance	
M	±20%
N	±30%

包裝方式 Packaging Style	
T	卷帶盤裝 Tape&Reel
B	散裝Bulk

#### • 外形尺寸 SHAPE AND DIMENSIONS

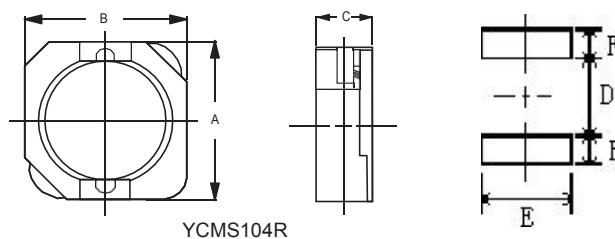


Unit : mm



Unit : mm

型號 Part	A	B	C	D	E
YCMS73	7.3 ±0.3	7.3 ±0.3	3.4 ±0.3	5.0	2.0
YCMS74	7.3 ±0.3	7.3 ±0.3	4.2 ±0.3	5.0	2.0
YCMS124	12.2 ±0.4	12.2 ±0.4	4.5 ±0.3	7.6	5.0
YCMS125	12.2 ±0.4	12.2 ±0.4	5.7 ±0.3	7.6	5.0
YCMS127	12.2 ±0.4	12.2 ±0.4	7.5 ±0.3	7.6	5.0



YCMS104R

Unit : mm

型號Part	A	B	C	D	E	F
YCMS104R	10.2 ± 0.3	10.0 ± 0.3	4.0MAX	7.8	3.0	1.2

## ■ 電性能參數 ELECTRICAL CHARACTERISTICS

### MS62 Series

Part Number	電感量 L(μH)	Tolerance	Test Freq.	直流電阻 DCR(Ω)Max	Isat(A)
YCMS62-6R8NT	6.8	± 30%	1kHz	0.120	1.70
YCMS62-100MT	10	± 20%	1kHz	0.170	1.60
YCMS62-150MT	15	± 20%	1kHz	0.260	1.30
YCMS62-220MT	22	± 20%	1kHz	0.380	1.00
YCMS62-330MT	33	± 20%	1kHz	0.480	0.64
YCMS62-470MT	47	± 20%	1kHz	0.770	0.53
YCMS62-101MT	100	± 20%	1kHz	1.500	0.45

Isat: 飽和電流，加Isat時，電感值相對初始值下降 ≤20%

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

# YCMS系列

## YCMS SERIES SMD POWER INDUCTORS

### YCMS73 Series

Part Number	電感量 L( $\mu$ H)	Tolerance	Test Freq.	直流電阻 DCR( $\Omega$ )Max	Isat(A)
YCMS73-1R0NT	1.0	$\pm 30\%$	1kHz	0.025	3.60
YCMS73-2R2NT	2.2	$\pm 30\%$	1kHz	0.035	2.50
YCMS73-100MT	10	$\pm 20\%$	1kHz	0.072	1.68
YCMS73-120MT	12	$\pm 20\%$	1kHz	0.098	1.52
YCMS73-150MT	15	$\pm 20\%$	1kHz	0.130	1.33
YCMS73-180MT	18	$\pm 20\%$	1kHz	0.140	1.20
YCMS73-220MT	22	$\pm 20\%$	1kHz	0.190	1.07
YCMS73-270MT	27	$\pm 20\%$	1kHz	0.210	0.96
YCMS73-330MT	33	$\pm 20\%$	1kHz	0.240	0.91
YCMS73-390MT	39	$\pm 20\%$	1kHz	0.320	0.77
YCMS73-470MT	47	$\pm 20\%$	1kHz	0.360	0.76
YCMS73-560MT	56	$\pm 20\%$	1kHz	0.470	0.68
YCMS73-680MT	68	$\pm 20\%$	1kHz	0.520	0.61
YCMS73-820MT	82	$\pm 20\%$	1kHz	0.690	0.57
YCMS73-101MT	100	$\pm 20\%$	1kHz	0.790	0.50
YCMS73-121MT	120	$\pm 20\%$	1kHz	0.890	0.49
YCMS73-151MT	150	$\pm 20\%$	1kHz	1.270	0.43
YCMS73-181MT	180	$\pm 20\%$	1kHz	1.450	0.39
YCMS73-221MT	220	$\pm 20\%$	1kHz	1.650	0.35
YCMS73-271MT	270	$\pm 20\%$	1kHz	2.310	0.32
YCMS73-331MT	330	$\pm 20\%$	1kHz	2.620	0.28
YCMS73-391MT	390	$\pm 20\%$	1kHz	2.940	0.26
YCMS73-471MT	470	$\pm 20\%$	1kHz	4.180	0.24
YCMS73-561MT	560	$\pm 20\%$	1kHz	4.670	0.22
YCMS73-681MT	680	$\pm 20\%$	1kHz	5.730	0.19
YCMS73-821MT	820	$\pm 20\%$	1kHz	6.540	0.18
YCMS73-102MT	1000	$\pm 20\%$	1kHz	9.440	0.16

### YCMS74 Series

Part Number	電感量 L( $\mu$ H)	Tolerance	Test Freq.	直流電阻 DCR( $\Omega$ )Max	Isat(A)
YCMS74-1R0NT	1.0	$\pm 30\%$	1kHz	0.022	6.00
YCMS74-2R2NT	2.2	$\pm 30\%$	1kHz	0.030	3.00
YCMS74-100MT	10	$\pm 20\%$	1kHz	0.049	1.84
YCMS74-120MT	12	$\pm 20\%$	1kHz	0.058	1.71
YCMS74-150MT	15	$\pm 20\%$	1kHz	0.081	1.47
YCMS74-180MT	18	$\pm 20\%$	1kHz	0.091	1.31
YCMS74-220MT	22	$\pm 20\%$	1kHz	0.110	1.23
YCMS74-330MT	33	$\pm 20\%$	1kHz	0.170	0.96
YCMS74-390MT	39	$\pm 20\%$	1kHz	0.230	0.91
YCMS74-470MT	47	$\pm 20\%$	1kHz	0.260	0.88
YCMS74-560MT	56	$\pm 20\%$	1kHz	0.350	0.75
YCMS74-680MT	68	$\pm 20\%$	1kHz	0.380	0.69
YCMS74-820MT	82	$\pm 20\%$	1kHz	0.430	0.61
YCMS74-101MT	100	$\pm 20\%$	1kHz	0.610	0.60
YCMS74-121MT	120	$\pm 20\%$	1kHz	0.660	0.52
YCMS74-151MT	150	$\pm 20\%$	1kHz	0.880	0.46
YCMS74-181MT	180	$\pm 20\%$	1kHz	0.980	0.42
YCMS74-221MT	220	$\pm 20\%$	1kHz	1.170	0.36
YCMS74-271MT	270	$\pm 20\%$	1kHz	1.640	0.34
YCMS74-331MT	330	$\pm 20\%$	1kHz	1.860	0.32
YCMS74-391MT	390	$\pm 20\%$	1kHz	2.850	0.29
YCMS74-471MT	470	$\pm 20\%$	1kHz	3.010	0.26
YCMS74-561MT	560	$\pm 20\%$	1kHz	3.620	0.23
YCMS74-681MT	680	$\pm 20\%$	1kHz	4.630	0.22
YCMS74-821MT	820	$\pm 20\%$	1kHz	5.200	0.20
YCMS74-102MT	1000	$\pm 20\%$	1kHz	6.000	0.18

Isat: 飽和電流, 加Isat時, 電感值相對初始值下降 $\leq 20\%$

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

## YCMS104R Series

Part Number	電感量 L( $\mu$ H)	Tolerance	Test Freq.	直流電阻 DCR( $\Omega$ )Max	Isat(A)
YCMS104R-1R5NT	1.5	$\pm$ 30%	100kHz	0.017	10.0
YCMS104R-2R5NT	2.5	$\pm$ 30%	100kHz	0.021	7.50
YCMS104R-3R3NT	3.3	$\pm$ 30%	100kHz	0.035	6.00
YCMS104R-3R8NT	3.8	$\pm$ 30%	100kHz	0.035	6.00
YCMS104R-4R7NT	4.7	$\pm$ 30%	100kHz	0.028	5.50
YCMS104R-5R2NT	5.2	$\pm$ 30%	100kHz	0.028	5.50
YCMS104R-7R0NT	7.0	$\pm$ 30%	100kHz	0.038	4.80
YCMS104R-100MT	10	$\pm$ 20%	100kHz	0.043	4.40
YCMS104R-120MT	12	$\pm$ 20%	100kHz	0.060	4.00
YCMS104R-150MT	15	$\pm$ 20%	100kHz	0.068	3.60
YCMS104R-180MT	18	$\pm$ 20%	100kHz	0.070	3.30
YCMS104R-220MT	22	$\pm$ 20%	100kHz	0.090	2.90
YCMS104R-270MT	27	$\pm$ 20%	100kHz	0.117	2.60
YCMS104R-330MT	33	$\pm$ 20%	100kHz	0.120	2.40
YCMS104R-470MT	47	$\pm$ 20%	100kHz	0.190	2.10
YCMS104R-680MT	68	$\pm$ 20%	100kHz	0.350	1.50
YCMS104R-820MT	82	$\pm$ 20%	100kHz	0.385	1.45
YCMS104R-101MT	100	$\pm$ 20%	100kHz	0.430	1.35
YCMS104R-151MT	150	$\pm$ 20%	100kHz	0.506	1.15
YCMS104R-181MT	180	$\pm$ 20%	100kHz	0.627	1.00
YCMS104R-221MT	220	$\pm$ 20%	100kHz	0.756	0.92
YCMS104R-271MT	270	$\pm$ 20%	100kHz	0.950	0.75
YCMS104R-331MT	330	$\pm$ 20%	100kHz	1.090	0.70
YCMS104R-471MT	470	$\pm$ 20%	100kHz	1.900	0.60

## YCMS124 Series

Part Number	電感量 L( $\mu$ H)	Tolerance	Test Freq.	直流電阻 DCR( $\Omega$ )Max	Isat(A)
YCMS124-1R0NT	1.0	$\pm$ 30%	100kHz	0.008	12.00
YCMS124-1R6NT	1.6	$\pm$ 30%	100kHz	0.009	8.00
YCMS124-3R9NT	3.9	$\pm$ 30%	100kHz	0.018	6.50
YCMS124-4R7NT	4.7	$\pm$ 30%	100kHz	0.022	5.70
YCMS124-6R2NT	6.2	$\pm$ 30%	100kHz	0.028	4.90
YCMS124-6R8NT	6.8	$\pm$ 30%	100kHz	0.028	4.90
YCMS124-100MT	10	$\pm$ 20%	100kHz	0.035	4.50
YCMS124-120MT	12	$\pm$ 20%	100kHz	0.038	4.00
YCMS124-150MT	15	$\pm$ 20%	100kHz	0.050	3.20
YCMS124-180MT	18	$\pm$ 20%	100kHz	0.057	3.10
YCMS124-220MT	22	$\pm$ 20%	100kHz	0.066	2.90
YCMS124-270MT	27	$\pm$ 20%	100kHz	0.080	2.80
YCMS124-330MT	33	$\pm$ 20%	100kHz	0.097	2.70
YCMS124-390MT	39	$\pm$ 20%	100kHz	0.132	2.10
YCMS124-470MT	47	$\pm$ 20%	100kHz	0.150	1.90
YCMS124-560MT	56	$\pm$ 20%	100kHz	0.190	1.80
YCMS124-680MT	68	$\pm$ 20%	100kHz	0.220	1.50
YCMS124-820MT	82	$\pm$ 20%	100kHz	0.260	1.30
YCMS124-101MT	100	$\pm$ 20%	100kHz	0.308	1.20
YCMS124-121MT	120	$\pm$ 20%	100kHz	0.380	1.10
YCMS124-151MT	150	$\pm$ 20%	100kHz	0.530	0.95
YCMS124-181MT	180	$\pm$ 20%	100kHz	0.620	0.85
YCMS124-221MT	220	$\pm$ 20%	100kHz	0.700	0.80
YCMS124-271MT	270	$\pm$ 20%	100kHz	0.876	0.60
YCMS124-331MT	330	$\pm$ 20%	100kHz	0.990	0.50
YCMS124-471MT	470	$\pm$ 20%	100kHz	1.300	0.40
YCMS124-152MT	1500	$\pm$ 20%	100kHz	4.000	0.29
YCMS124-333MT	33000	$\pm$ 20%	100kHz	95.000	0.07

Isat: 飽和電流，加Isat時，電感值相對初始值下降 $\leq$ 20%

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

## YCMS系列

### YCMS SERIES SMD POWER INDUCTORS

#### YCMS125 Series

Part Number	電感量 L( $\mu$ H)	Tolerance	Test Freq.	直流電阻 DCR( $\Omega$ )Max	Isat(A)
YCMS125-1R3NT	1.3	$\pm$ 30%	100kHz	0.012	8.00
YCMS125-2R1NT	2.1	$\pm$ 30%	100kHz	0.014	7.00
YCMS125-3R1NT	3.1	$\pm$ 30%	100kHz	0.017	6.00
YCMS125-4R4NT	4.4	$\pm$ 30%	100kHz	0.020	5.00
YCMS125-5R8NT	5.8	$\pm$ 30%	100kHz	0.021	4.40
YCMS125-7R5NT	7.5	$\pm$ 30%	100kHz	0.024	4.20
YCMS125-100MT	10	$\pm$ 20%	1kHz	0.025	4.00
YCMS125-120MT	12	$\pm$ 20%	1kHz	0.027	3.50
YCMS125-150MT	15	$\pm$ 20%	1kHz	0.030	3.30
YCMS125-180MT	18	$\pm$ 20%	1kHz	0.034	3.00
YCMS125-220MT	22	$\pm$ 20%	1kHz	0.042	2.80
YCMS125-270MT	27	$\pm$ 20%	1kHz	0.051	2.30
YCMS125-330MT	33	$\pm$ 20%	1kHz	0.065	2.10
YCMS125-390MT	39	$\pm$ 20%	1kHz	0.068	2.00
YCMS125-470MT	47	$\pm$ 20%	1kHz	0.075	1.80
YCMS125-560MT	56	$\pm$ 20%	1kHz	0.110	1.70
YCMS125-680MT	68	$\pm$ 20%	1kHz	0.120	1.50
YCMS125-820MT	82	$\pm$ 20%	1kHz	0.140	1.40
YCMS125-101MT	100	$\pm$ 20%	1kHz	0.198	1.30
YCMS125-121MT	120	$\pm$ 20%	1kHz	0.220	1.10
YCMS125-151MT	150	$\pm$ 20%	1kHz	0.230	1.00
YCMS125-181MT	180	$\pm$ 20%	1kHz	0.290	0.90
YCMS125-221MT	220	$\pm$ 20%	1kHz	0.400	0.80
YCMS125-271MT	270	$\pm$ 20%	1kHz	0.460	0.75
YCMS125-331MT	330	$\pm$ 20%	1kHz	0.510	0.68
YCMS125-391MT	390	$\pm$ 20%	1kHz	0.690	0.65
YCMS125-471MT	470	$\pm$ 20%	1kHz	0.770	0.58
YCMS125-561MT	560	$\pm$ 20%	1kHz	0.860	0.54
YCMS125-681MT	680	$\pm$ 20%	1kHz	1.200	0.48
YCMS125-821MT	820	$\pm$ 20%	1kHz	1.340	0.43
YCMS125-102MT	1000	$\pm$ 20%	1kHz	1.900	0.40
YCMS125-472MT	4700	$\pm$ 20%	1kHz	8.280	0.30
YCMS125-802MT	8000	$\pm$ 20%	1kHz	15.000	0.22
YCMS125-103MT	10000	$\pm$ 20%	1kHz	20.000	0.12

Isat: 飽和電流，加Isat時，電感值相對初始值下降  $\leq$  20%

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

YCMS127 Series

Part Number	電感量 L( $\mu$ H)	Tolerance	Test Freq.	直流電阻 DCR( $\Omega$ )Max	Isat(A)
YCMS127-1R0NT	1.0	$\pm$ 30%	100kHz	0.0070	9.80
YCMS127-2R2NT	2.2	$\pm$ 30%	100kHz	0.0115	7.50
YCMS127-3R3NT	3.3	$\pm$ 30%	100kHz	0.0135	7.50
YCMS127-4R7NT	4.7	$\pm$ 30%	100kHz	0.0158	6.80
YCMS127-100MT	10	$\pm$ 20%	1kHz	0.0216	5.40
YCMS127-120MT	12	$\pm$ 20%	1kHz	0.0243	4.90
YCMS127-150MT	15	$\pm$ 20%	1kHz	0.0270	4.50
YCMS127-180MT	18	$\pm$ 20%	1kHz	0.0392	3.90
YCMS127-220MT	22	$\pm$ 20%	1kHz	0.0432	3.60
YCMS127-270MT	27	$\pm$ 20%	1kHz	0.0459	3.40
YCMS127-330MT	33	$\pm$ 20%	1kHz	0.0648	3.00
YCMS127-390MT	39	$\pm$ 20%	1kHz	0.0729	2.75
YCMS127-470MT	47	$\pm$ 20%	1kHz	0.1000	2.50
YCMS127-560MT	56	$\pm$ 20%	1kHz	0.110	2.35
YCMS127-680MT	68	$\pm$ 20%	1kHz	0.140	2.10
YCMS127-820MT	82	$\pm$ 20%	1kHz	0.160	1.95
YCMS127-101MT	100	$\pm$ 20%	1kHz	0.220	1.70
YCMS127-121MT	120	$\pm$ 20%	1kHz	0.250	1.60
YCMS127-151MT	150	$\pm$ 20%	1kHz	0.280	1.42
YCMS127-181MT	180	$\pm$ 20%	1kHz	0.350	1.30
YCMS127-221MT	220	$\pm$ 20%	1kHz	0.390	1.16
YCMS127-271MT	270	$\pm$ 20%	1kHz	0.560	1.06
YCMS127-331MT	330	$\pm$ 20%	1kHz	0.640	0.95
YCMS127-391MT	390	$\pm$ 20%	1kHz	0.700	0.88
YCMS127-471MT	470	$\pm$ 20%	1kHz	0.980	0.79
YCMS127-561MT	560	$\pm$ 20%	1kHz	1.070	0.73
YCMS127-681MT	680	$\pm$ 20%	1kHz	1.460	0.67
YCMS127-821MT	820	$\pm$ 20%	1kHz	1.640	0.60
YCMS127-102MT	1000	$\pm$ 20%	1kHz	1.820	0.55

Isat: 飽和電流，加Isat時，電感值相對初始值下降  $\leq$  20%

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

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