

# SMD Unshielded 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

- DC low resistance, small, may correspond to current use

直流電阻較低，小型，可對應大電流用途

- Magnetically shielded construction

磁屏蔽結構

- For RoHS instructions corresponding products

為RoHS指令對應產品



## ◎ Product application 產品應用

- Ideally used in Digital camera, notebook PC, LCD TV set, DC-DC Converters, etc

用於數碼相機，筆記本電腦，LCD電視等

## ◎ Product Identification 產品標識

VES 585230 470 M T

VES-----Series name 系列名稱

585230-----Dimension 產品尺寸

470-----Inductance 電感值【470=470  $\mu$ H】

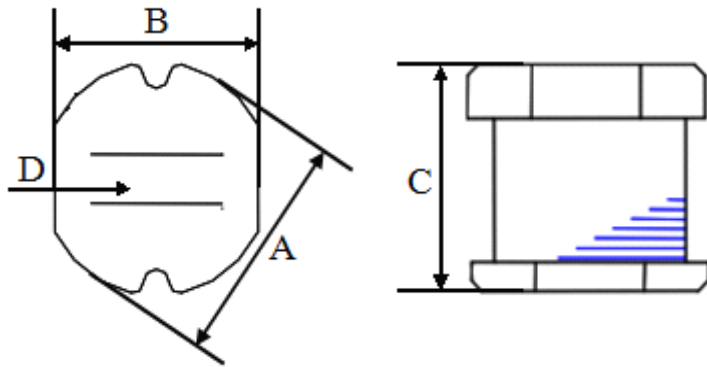
M-----Tolerance 公差【J=5%, K=10%, M= 20% ,T= 30% 】

T-----Taping 編帶盤裝

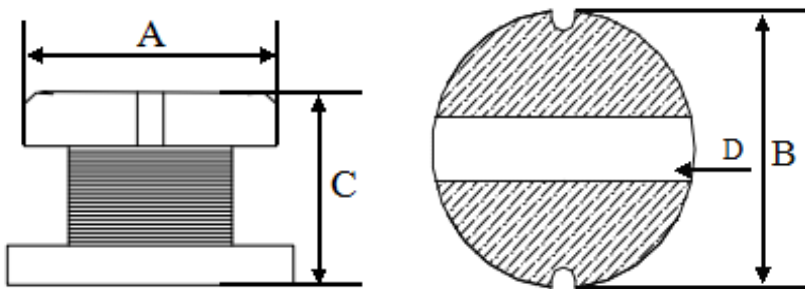
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## ◎Shape&Dimensions 形狀與尺寸:

333015--109065L



131370L



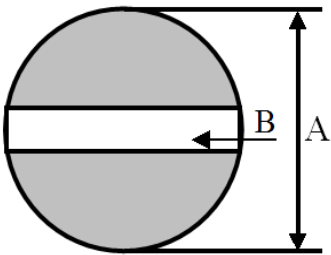
SIZE CODE (inch)	A	B	C	D	CHIPS REEL
333015	3.30±0.30	3.00±0.30	1.50±0.30	1.0 typ.	3K
333021	3.30±0.30	3.00±0.30	2.10±0.30	1.0 typ.	3K
454032	4.50±0.30	4.00±0.23	3.20±0.30	1.2	2K
585225	5.80±0.30	5.20±0.20	2.50±0.30	2.0 typ.	2K
585230	5.80±0.30	5.20±0.20	3.00±0.30	2.0 typ.	2K
585245	5.80±0.30	5.20±0.20	4.50±0.40	1.3	1.5K
787035	7.80±0.30	7.00±0.20	3.50±0.30	2.1	1K
787050	7.80±0.30	7.00±0.20	5.00±0.30	2.1	0.7K
109040L	10.00±0.30	9.00±0.30	4.00±0.50	2.1	0.7K
109054L	10.00±0.40	9.00±0.40	5.40±0.40	2.1	0.7K
109065L	10.00±0.40	9.00±0.40	6.50±0.40	2.1	0.5K
131370L	13.00±0.50	13.00±0.50	7.00±0.30	5 Typ.	0.5K

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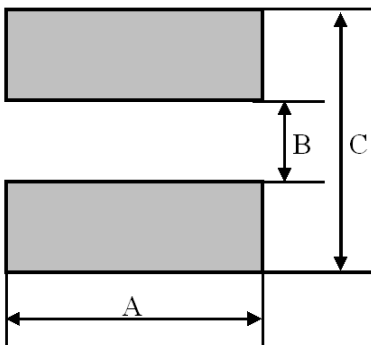
## ◎Recommender Land Pattern 推薦焊盤布局：

UNIT: mm

333015--109065L



131370L



SIZE CODE (inch)	A	B	C
333015	4.5	1	
333021	4.5	1	
454032	5.5	1.2	
585225	6.8	2	
585230	6.8	2	
585245	6.8	1.3	
787035	8.8	2.1	
787050	8.8	2.1	
109040L	11	2.1	
109054L	11	2.1	
109065L	11	2.1	
131370L	14	4.5	14

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© Detailed specifications and parameters are introduced

詳細規格及參數介紹

ORDERING CORE	Inductance ( $\mu$ H)	Tolerance ( $\pm$ %)	Test Frequency	RDC (MAX) ( $\Omega$ )	Isat (A)
VES-585230-1R0	1	M	7.96MHz/1V	0.030	4.50
VES-585230-1R2	1.2	M	7.96MHz/1V	0.030	4.20
VES-585230-1R5	1.5	M	7.96MHz/1V	0.030	4.10
VES-585230-1R8	1.8	K/M	7.96MHz/1V	0.030	3.70
VES-585230-2R0	2	M	7.96MHz/1V	0.030	3.60
VES-585230-2R2	2.2	M	7.96MHz/1V	0.030	3.50
VES-585230-2R7	2.7	M	7.96MHz/1V	0.040	3.20
VES-585230-3R3	3.3	K/M	7.96MHz/1V	0.050	2.80
VES-585230-3R9	3.9	M	7.96MHz/1V	0.060	2.60
VES-585230-4R7	4.7	K/M	7.96MHz/1V	0.070	2.50
VES-585230-5R6	5.6	M	7.96MHz/1V	0.080	2.40
VES-585230-6R8	6.8	M	7.96MHz/1V	0.090	2.20
VES-585230-8R2	8.2	M	7.96MHz/1V	0.100	2.00
VES-585230-100	10	K/M	2.52MHz/1V	0.120	1.80
VES-585230-120	12	M	2.52MHz/1V	0.130	1.75
VES-585230-150	15	K/M	2.52MHz/1V	0.150	1.70
VES-585230-180	18	K/M	2.52MHz/1V	0.220	1.60
VES-585230-220	22	K/M	2.52MHz/1V	0.220	1.50
VES-585230-270	27	M	2.52MHz/1V	0.260	1.40
VES-585230-330	33	K/M	2.52MHz/1V	0.330	1.10
VES-585230-390	39	K/M	2.52MHz/1V	0.420	1.00
VES-585230-470	47	K/M	2.52MHz/1V	0.500	0.90
VES-585230-560	56	K/M	2.52MHz/1V	0.550	0.85
VES-585230-680	68	K/M	2.52MHz/1V	0.650	0.80
VES-585230-820	82	K/M	2.52MHz/1V	0.800	0.65
VES-585230-101	100	K/M	1KHz/1V	0.900	0.60
VES-585230-121	120	K/M	1KHz/1V	1.000	0.58
VES-585230-151	150	K/M	1KHz/1V	1.300	0.43
VES-585230-181	180	K/M	1KHz/1V	1.500	0.41
VES-585230-221	220	K/M	1KHz/1V	2.000	0.38
VES-585230-271	270	K/M	1KHz/1V	2.500	0.35

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ORDERING CORE	Inductance ( $\mu\text{H}$ )	Tolerance ( $\pm\%$ )	Test Frequency	RDC (MAX) ( $\Omega$ )	Isat (A)
VES-585230-331	330	K/M	1KHz/1V	3.200	0.28
VES-585230-391	390	K/M	1KHz/1V	3.500	0.26
VES-585230-471	470	K/M	1KHz/1V	4.200	0.2
VES-585230-561	560	K/M	1KHz/1V	4.500	0.19
VES-585230-681	680	K/M	1KHz/1V	6.500	0.18
VES-585230-821	820	K/M	1KHz/1V	7.500	0.15
VES-585230-102	1000	K/M	1KHz/1V	8.000	0.13