

# 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 333021 470 M T

VES-----Series name 系列名稱

333015-----Dimension 產品尺寸

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

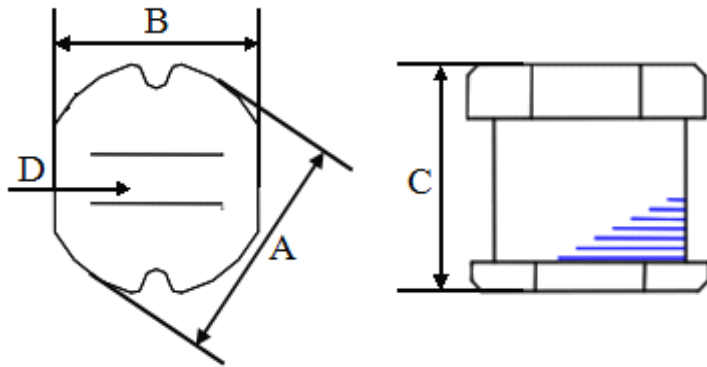
M-----Tolerance 公差【J=5%, K=10%, M= 20% ,T= 30% 】

T-----Taping 編帶盤裝

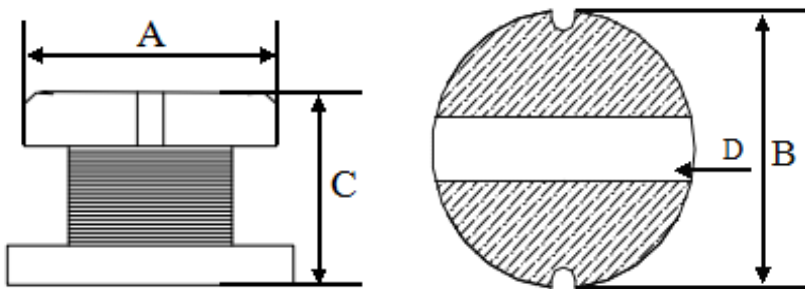
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## ◎Shape&Dimensions 形狀與尺寸:

333015--109065L



131370L



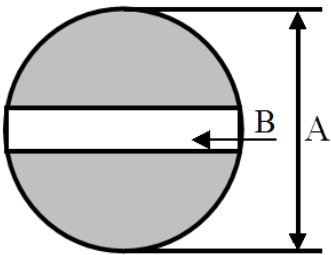
SIZE CODE (inch)	A	B	C	D	CHIPS REEL
333015	3.30±0.30	3.00±0.30	1.50±0.30	1.0 typ.	3K
333021	3.30±0.30	3.00±0.30	2.10±0.30	1.0 typ.	3K
454032	4.50±0.30	4.00±0.23	3.20±0.30	1.2	2K
585225	5.80±0.30	5.20±0.20	2.50±0.30	2.0 typ.	2K
585230	5.80±0.30	5.20±0.20	3.00±0.30	2.0 typ.	2K
585245	5.80±0.30	5.20±0.20	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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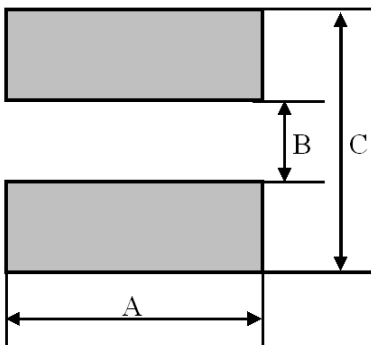
## ◎Recommender Land Pattern 推薦焊盤布局：

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-333021-R82	0.82	T	7.96MHz/1V	0.060	2.2
VES-333021-1R0	1	M	7.96MHz/1V	0.070	2.08
VES-333021-1R4	1.4	M	7.96MHz/1V	0.090	1.86
VES-333021-1R5	1.5	M	7.96MHz/1V	0.110	1.8
VES-333021-1R8	1.8	M	7.96MHz/1V	0.110	1.8
VES-333021-2R2	2.2	M	7.96MHz/1V	0.130	1.39
VES-333021-2R7	2.7	M	7.96MHz/1V	0.140	1.32
VES-333021-3R3	3.3	M	7.96MHz/1V	0.170	1.25
VES-333021-3R9	3.9	M	7.96MHz/1V	0.190	1.2
VES-333021-4R7	4.7	M	7.96MHz/1V	0.210	1.13
VES-333021-5R6	5.6	M	7.96MHz/1V	0.220	0.91
VES-333021-6R8	6.8	M	7.96MHz/1V	0.250	0.85
VES-333021-7R0	7	M	7.96MHz/1V	0.280	0.82
VES-333021-8R2	8.2	M	7.96MHz/1V	0.280	0.82
VES-333021-100	10	K/M	2.52NHZ/1V	0.320	0.74
VES-333021-120	12	M	2.52NHZ/1V	0.350	0.64
VES-333021-150	15	M	2.52NHZ/1V	0.400	0.6
VES-333021-180	18	M	2.52NHZ/1V	0.480	0.54
VES-333021-220	22	K/M	2.52NHZ/1V	0.580	0.5
VES-333021-270	27	M	2.52NHZ/1V	0.650	0.43
VES-333021-330	33	M	2.52NHZ/1V	0.800	0.4
VES-333021-390	39	M	2.52NHZ/1V	0.900	0.37
VES-333021-470	47	M	2.52NHZ/1V	1.190	0.36
VES-333021-500	50	M	2.52NHZ/1V	1.220	0.33
VES-333021-560	56	M	2.52NHZ/1V	1.270	0.31
VES-333021-680	68	K/M	2.52NHZ/1V	1.730	0.3
VES-333021-750	75	M	2.52NHZ/1V	1.900	0.29
VES-333021-820	82	K/M	2.52NHZ/1V	1.990	0.28
VES-333021-101	100	M	1KHz/1V	2.520	0.25
VES-333021-121	120	K/M	1KHz/1V	2.900	0.2
VES-333021-151	150	M	1KHz/1V	3.360	0.19

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ORDERING CORE	Inductance ( $\mu$ H)	Tolerance ( $\pm\%$ )	Test Frequency	RDC (MAX) ( $\Omega$ )	Isat (A)
VES-333021-181	180	M	1KHz/1V	5.100	0.17
VES-333021-221	220	K/M	1KHz/1V	5.800	0.16
VES-333021-271	270	K/M	1KHz/1V	7.800	0.14
VES-333021-301	300	M	1KHz/1V	8.100	0.135
VES-333021-331	330	M	1KHz/1V	9.240	0.13
VES-333021-391	390	M	1KHz/1V	10.140	0.12
VES-333021-461	460	M	1KHz/1V	11.150	0.09
VES-333021-471	470	K/M	1KHz/1V	11.480	0.084
VES-333021-561	560	M	1KHz/1V	19.490	0.08
VES-333021-681	680	M	1KHz/1V	22.000	0.08
VES-333021-821	820	M	1KHz/1V	23.980	0.07
VES-333021-102	1000	M	1KHz/1V	28.800	0.85