

# 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 131370L 471 M T

VES-----Series name 系列名稱

131370L-----Dimension 產品尺寸

471-----Inductance 電感值【471=470 $\mu$ H】

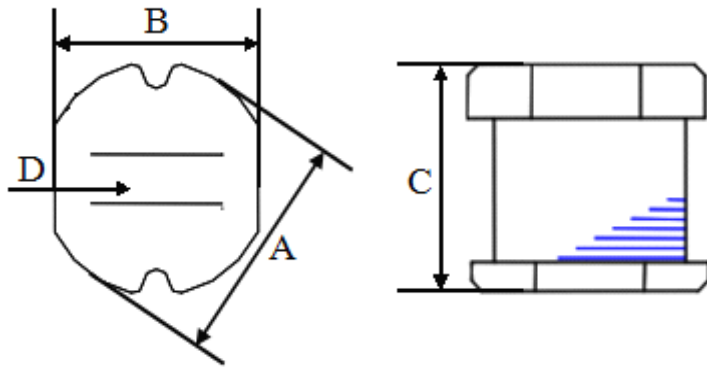
M-----Tolerance 公差【J=5%, K=10%, M= 20% ,T= 30% 】

T-----Taping 編帶盤裝

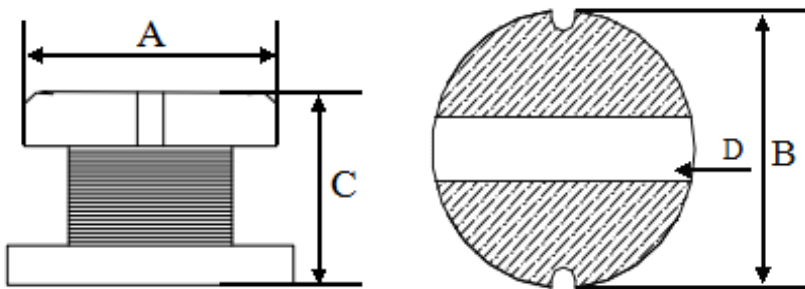
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## ◎Shape&Dimensions 形狀與尺寸:

333015--109065L



131370L



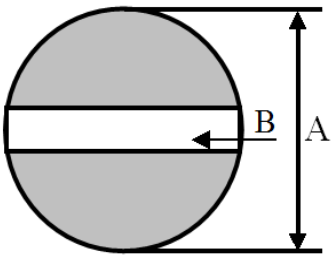
SIZE CODE (inch)	A	B	C	D	CHIPS REEL
333015	3.30±0.30	3.00±0.30	1.50±0.30	1.0 typ.	3K
333021	3.30±0.30	3.00±0.30	2.10±0.30	1.0 typ.	3K
454032	4.50±0.30	4.00±0.23	3.20±0.30	1.2	2K
585225	5.80±0.30	5.20±0.20	2.50±0.30	2.0 typ.	2K
585230	5.80±0.30	5.20±0.20	3.00±0.30	2.0 typ.	2K
585245	5.80±0.30	5.20±0.20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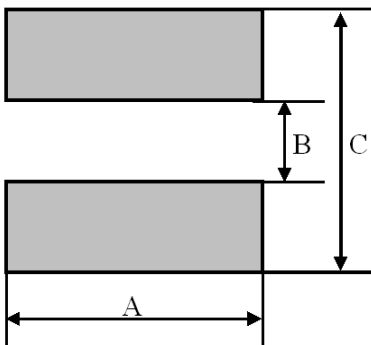
## ◎Recommender Land Pattern 推薦焊盤布局：

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-131370L-1R5	1.5	M	100KHz/0.1V	0.0050	9.5
VES-131370L-2R2	2.2	M	100KHz/0.1V	0.0060	9
VES-131370L-2R7	2.7	M	100KHz/0.1V	0.0080	8.2
VES-131370L-3R3	3.3	M	100KHz/0.1V	0.0087	7.5
VES-131370L-4R7	4.7	M	100KHz/0.1V	0.0100	7
VES-131370L-5R6	5.6	M	100KHz/0.1V	0.0150	6.5
VES-131370L-6R8	6.8	M	100KHz/0.1V	0.0170	6
VES-131370L-8R2	8.2	M	100KHz/0.1V	0.0190	5.8
VES-131370L-100	10	M	100KHz/0.1V	0.0210	5.6
VES-131370L-120	12	M	100KHz/0.1V	0.0300	4.8
VES-131370L-150	15	M	100KHz/0.1V	0.0340	4.5
VES-131370L-180	18	M	100KHz/0.1V	0.0360	4.2
VES-131370L-220	22	M	100KHz/0.1V	0.0470	3.6
VES-131370L-270	27	M	100KHz/0.1V	0.0600	3.3
VES-131370L-330	33	K/M	100KHz/0.1V	0.0650	3.1
VES-131370L-390	39	K/M	100KHz/0.1V	0.0750	2.9
VES-131370L-470	47	K/M	100KHz/0.1V	0.0820	2.7
VES-131370L-560	56	K/M	100KHz/0.1V	0.0950	2.5
VES-131370L-680	68	K/M	100KHz/0.1V	0.1200	2.3
VES-131370L-820	82	K/M	100KHz/0.1V	0.1400	2.1
VES-131370L-101	100	K/M	100KHz/0.1V	0.1800	1.9
VES-131370L-121	120	K/M	100KHz/0.1V	0.2100	1.8
VES-131370L-151	150	K/M	100KHz/0.1V	0.2500	1.6
VES-131370L-181	180	K/M	100KHz/0.1V	0.2800	1.5
VES-131370L-221	220	K/M	100KHz/0.1V	0.3600	1.3
VES-131370L-271	270	K/M	100KHz/0.1V	0.4100	1.2
VES-131370L-331	330	K/M	100KHz/0.1V	0.5200	1.1
VES-131370L-391	390	K/M	100KHz/0.1V	0.6000	1
VES-131370L-471	470	K/M	100KHz/0.1V	0.7200	0.9
VES-131370L-561	560	K/M	100KHz/0.1V	0.8800	0.85
VES-131370L-681	680	K/M	100KHz/0.1V	1.0000	0.8

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ORDERING CORE	Inductance ( $\mu$ H)	Tolerance ( $\pm$ %)	Test Frequency	RDC (MAX) ( $\Omega$ )	Isat (A)
VES-131370L-821	820	K/M	100KHz/0.1V	1.3000	0.75
VES-131370L-102	1000	K/M	100KHz/0.1V	1.6000	0.65