

●縦型チップ標準品

**VBSシリーズ** JIS C5101  
CE-32  
(耐洗浄品)

●VERTICAL CHIP STANDARDIZED TYPE

**TYPE VBS** JIS C5101  
CE-32  
(Washable product)

■特徴

- ・面実装構造で高密度実装に対応できます。
- ・耐熱性に優れ、リフローはんだ付けが可能です。

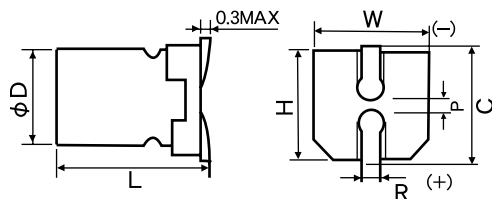
■FEATURES

- ・ The capacitor is a surface mounting construction and suited to high density mounting.
- ・ The capacitor excels in heat resistance and can be reflow-soldered.

■性能/PERFORMANCE SPECIFICATIONS

カテゴリ温度範囲	CATEGORY TEMPERATURE RANGE	-40℃~+85℃									
標準静電容量許容差	STANDARD CAPACITANCE TOLERANCE	-20%~+20% (120Hz)									
漏れ電流(最大値)	LEAKAGE CURRENT (MAX. VALUE)	I=0.01CV OR 3μA WHICHEVER IS THE GREATER (after 2 minutes) C=RATED CAPACITANCE (μF) V=WORKING VOLTAGE (V)									
損失角の正接(最大値) (tan δ)	DISSIPATION FACTOR (MAX. VALUE)	W, V	4	6.3	10	16	25	35	50	63	100
		φ4~φ6.3	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.10
		φ8~φ16									
		0.40 0.30 0.24 0.20 0.16 0.14 0.12 0.12 0.10									
		When the capacitance exceed 1,000μF, the value of tan δ is increased by 0.02 for each increment of 1,000μF or its fraction.									
耐久性 85℃ 2000時間 定格電圧印加	ENDURANCE APPLICATION OF RATED OPERATING VOLTAGE, AT 85℃ FOR 2000hrs.	CAPACITANCE CHANGE : LESS THAN 25% OF THE INITIAL MEASURED VALUE. DISSIPATION FACTOR : LESS THAN 200% OF THE INITIAL SPECIFIED VALUE. LEAKAGE CURRENT : LESS THAN THE INITIAL SPECIFIED VALUE.									

■寸法図/DIAGRAM OF DIMENSIONS



(単位: mm)

D + 0.5MAX	L	W±0.2	H±0.2	C±0.2	R	P±0.2
4	5.4 <sup>+0.1</sup> <sub>-0.2</sub>	4.3	4.3	5.0	0.5~0.8	1.0
5	5.4 <sup>+0.1</sup> <sub>-0.2</sub>	5.3	5.3	6.0	0.5~0.8	1.4
6.3	5.4 <sup>+0.1</sup> <sub>-0.2</sub>	6.6	6.6	7.3	0.5~0.8	2.2
4	6.0±0.3	4.3	4.3	5.0	0.5~0.8	1.0
6.3	6.0±0.3	6.6	6.6	7.3	0.5~0.8	2.2
6.3	7.7±0.3	6.6	6.6	7.3	0.5~0.8	2.2
8	10.2±0.3	8.3	8.3	9.0	0.7~1.0	3.2
10	7.7±0.3	10.3	10.3	11.0	1.1~1.4	4.6
10	10.2±0.3	10.3	10.3	11.0	1.1~1.4	4.6
12.5	13.5±0.5	12.8	12.8	13.5	1.1~1.4	4.6
16	16.5±0.5	16.3	16.3	17.0	1.8~2.1	7.0

■寸法表(φD×L) SIZE TABLE (φD×L)

μF	4 (0G)		6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)		100 (2A)	
0.47 (R47)														4×5.4	5	4×5.4	5	
1 (010)														4×5.4	10	4×5.4	10	4×6.0 10
2.2 (2R2)														4×5.4	15	4×5.4	15	6.3×6.0 20
3.3 (3R3)														4×5.4	18	5×5.4	20	6.3×6.0 28
4.7 (4R7)									4×5.4 19	4×5.4 20			5×5.4 23	5×5.4 23	6.3×6.0 35			
10 (100)						4×5.4 25	5×5.4 28	5×5.4 30	6.3×5.4 34	6.3×5.4 34			6.3×6.0 60	6.3×7.7 70	8×10.2 120			
22 (220)		4×5.4 26	5×5.4 31	5×5.4 35	5×5.4 39	6.3×5.4 52	6.3×5.4 54	6.3×6.0 60	6.3×7.7 85	8×10.2 160	10×10.2 190							
33 (330)	4×5.4 26	5×5.4 39	5×5.4 43	6.3×5.4 57	6.3×5.4 63	6.3×6.0 60	6.3×7.7 85	8×10.2 160	10×10.2 190									
47 (470)	4×5.4 34	5×5.4 47	6.3×5.4 59	6.3×5.4 68	6.3×6.0 68	6.3×6.0 70	6.3×7.7 90	8×10.2 170	12.5×13.5 330									
68 (680)														8×10.2 180	12.5×13.5 350			
82 (820)													10×7.7 200					
100 (101)	5×5.4 61	6.3×5.4 71	6.3×5.4 76	6.3×5.4 86	6.3×7.7 130	6.3×7.7 120	8×10.2 200	8×10.2 220	10×7.7 220				10×10.2 280	10×10.2 280	16×16.5 550			
150 (151)					6.3×6.0 88	6.3×7.7 135	8×10.2 200	8×10.2 220	10×7.7 250							16×16.5 560		
220 (221)		6.3×5.4 82	6.3×6.0 95	6.3×7.7 150	6.3×7.7 150	8×10.2 250	8×10.2 270	10×10.2 320	12.5×13.5 410									
330 (331)		6.3×6.0 102	6.3×7.7 150	8×10.2 280	8×10.2 280	8×10.2 310	10×10.2 340	12.5×13.5 520										
390 (391)													12.5×13.5 550					
470 (471)		6.3×7.7 150	8×10.2 300	8×10.2 300	8×10.2 330	10×10.2 430	12.5×13.5 590							16×16.5 700				
680 (681)			8×10.2 300	10×7.7 300	10×10.2 450			12.5×13.5 610										
1000 (102)		8×10.2 330	10×10.2 330	10×10.2 450					12.5×13.5 660	16×16.5 1000	16×16.5 940							
1500 (152)		10×7.7 330																
2200 (222)			10×10.2 450		12.5×13.5 710				16×16.5 1060									
3300 (332)					12.5×13.5 730				16×16.5 1150									
4700 (472)					16×16.5 1260													
6800 (682)																		

φD×L      Ripple current (mA r.m.s.) (120Hz, 85℃)

■品番ご指定法/ HOW TO SPECIFY ITEM NUMBER

