

**UCB** チップ, 超高温範囲品  
Series, SMD 125°C, High Temperature

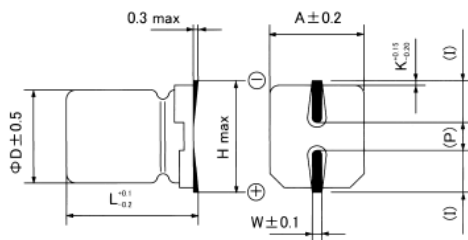
- 小形・薄形セットへの高密度表面実装に対応  
Chip type for high-density circuit use
- 125°C 2,000時間保証  
Load life: 2,000 hours
- 定格電圧範囲 Rated voltage range : 10 ~ 50V
- 静電容量範囲 Capacitance range : 10 ~ 330 $\mu$ F
- RoHS指令対応済/RoHS Compliant



■ 仕様 SPECIFICATIONS

項目 Items	特性 Characteristics							
カテゴリ温度範囲 Operating Temperature Range	-40 ~ +125°C							
定格電圧範囲 Rated Voltage Range	10V ~ 50V							
静電容量範囲 Nominal Capacitance Range	10 ~ 330 $\mu$ F							
静電容量許容差 Capacitance Tolerance	$\pm$ 20% (120Hz, 20°C)							
漏れ電流 Leakage Current	I $\leq$ 0.01CV 又は 3 $\mu$ A のいずれか大きい値以下(2分値) I $\leq$ 0.01CV or 3 $\mu$ A whichever is greater, after 2 minutes application of rated voltage.							
損失角の正接 Dissipation Factor	定格電圧(V) Rated voltage	10	16	25	35	50	120Hz, 20°C	
	tan $\delta$ (max.)	0.32	0.24	0.21	0.18	0.18		
温度特性 Temperature Characteristics	インピーダンス比 Impedance Ratio /120 Hz							
	定格電圧(V) Rated voltage	10	16	25	35	50		
	Z(-25°C) / Z(+20°C)	4	3	2	2	2		
	Z(-40°C) / Z(+20°C)	12	8	6	4	4		
高温負荷特性 Load Life	125°C 2,000 時間定格電圧連続印加後、20°Cに戻し測定を行ったとき、下記項目を満足する After 2,000 hours application of rated voltage at 105°C, capacitor meet the characteristic requirements as below.							
	静電容量変化率 Capacitance change	初期値の $\pm$ 30%以内 Within $\pm$ 30% of initial value						
	損失角の正接 Dissipation Factor	初期規格値の 300%以下 300% or less of initial specified value						
	漏れ電流 Leakage current	初期規格値以下 Initial specified value or less						
高温無負荷特性 Shelf Life	125°C 1,000 時間無負荷放置後、下記規格を満足する。(但し,JIS C-5102 4.4 項の電圧処理後) After storing the capacitors under no load at 125°C for 1,000 hours, capacitors meet the characteristic requirements as below. Be sure to apply voltage to the capacitors before test according to JIS-C-5101-4 4.1							
	静電容量変化率 Capacitance change	初期値の $\pm$ 30%以内/6.3V、 $\pm$ 25%以内/10~50V Within $\pm$ 30%/6.3V、 $\pm$ 25%/10~50V of initial value						
	損失角の正接 Dissipation Factor	初期規格値の 200%以下 200% or less of initial specified value						
	漏れ電流 Leakage current	初期規格値以下 Initial specified value or less						
はんだ耐熱性 Resistance to soldering heat	電極端子面を 250°Cの熱板上に 30 秒間放置後、20°Cに戻し測定を行ったとき、下記項目を満足する Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following requirements after being cooled to room temperature.							
	静電容量変化率 Capacitance change	初期値の $\pm$ 10%以内 Within $\pm$ 10% of initial value						
	損失角の正接 Dissipation Factor	初期規格値以下 Initial specified value or less						
	漏れ電流 Leakage current	初期規格値以下 Initial specified value or less						

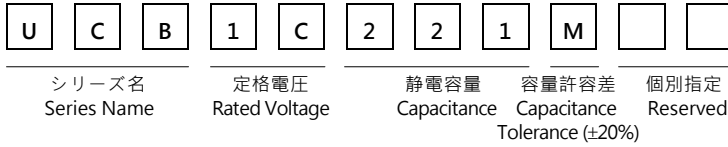
■ 寸法図 Dimensions



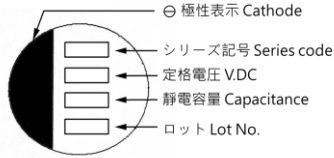
unit: mm

$\phi$ D	L	A	H	I	W	P	K
8	10.2	8.3	10	3.4	0.90 $\pm$ 0.2	3.1	0.70 $\pm$ 0.20
10	10.2	10.3	12	3.5	0.90 $\pm$ 0.2	4.6	0.70 $\pm$ 0.20

■ 品名コード体系 Part Numbering (例 example: 16V 220 μF)



■ Marking



- 許容リップル電流周波数補正係数  
Frequency coefficient of allowable ripple current

周波数 (Hz) Frequency	50 Hz	120 Hz	300 Hz	1 KHz	10 KHz~
係数 Coefficient	0.70	1.00	1.17	1.36	1.50

■ 寸法表 Standard Products Table

Cap. (μF)	W.V. Code	10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
		10	100								
22	220									8 x 10.2	50
33	330									8 x 10.2	60
47	470							8 x 10.2	75	10 x 10.2	85
100	101			8 x 10.2	70	8 x 10.2	75	10 x 10.2	120		
220	221	8 x 10.2	90	10 x 10.2	120	10 x 10.2	120				
330	331	10 x 10.2	120							Size (mm)	R.C.

Allowable Ripple Current/定格リップル電流 ( mArms ) at 125°C 120Hz