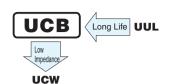
UCB

Chip Type, Long Life Assurance



- Chip type with load life of 7000 hours at +105°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).

Values marked with an % in the dimension table are scheduled to be discontinued and are not recommended for new designs.

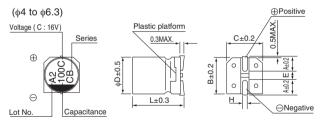


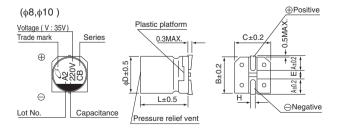


Specifications

Item	Performance Characteristics										
Category Temperature Range	-25 to +105°C										
Rated Voltage Range	6.3 to 50V	6.3 to 50V									
Rated Capacitance Range	0.1 to 1000μF	.1 to 1000μF									
Capacitance Tolerance	±20% at 120Hz, 20°	С									
Leakage Current	After 2 minutes' appli	ication of rate	d voltage,	eakage ci	urrent is r	not mo	re than 0.0	03 CV or 4 (_I	uA) , whichever is greater.		
					Measuren	nent fre	equency: 12	20Hz at 20°C			
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16	25		35	50			
	tan δ (MAX.)	0.32	0.28	0.26	0.16	3	0.14	0.14			
	Measurement frequency: 120Hz										
	Rated voltage (V)		6.3	10	16	25	35	50			
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	-25°C / Z+20°	C 4	3	2	2	2	2			
	The specifications listed at right shall be met Capacitance change Within ±30% of the initial capacitance value								tial conscitones value		
F	when the capacitors			tan δ	Capacitance change			300% or less than the initial specified value			
Endurance	after the rated voltage		Leakage current			Less than or equal to the initial specified value					
	hours at 105°C.			Leaka	ige currer	ıı	Less trial	TOI Equal to ti	ie iriliai specified value		
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.										
		The capacitors are kept on a hot plate for 30 seconds, which is Capacitance change Within ±10% of the initial capacitance ch									
Resistance to soldering	maintained at 250°C.						tan δ	and change	Less than or equal to the initial specified value		
heat	requirements listed at right when they are removed from the plate and restored to 20°C.							Leakage current Less than or equal to the initial specified value			
Marking	Black print on the cas	Black print on the case top.									

■Chip Type

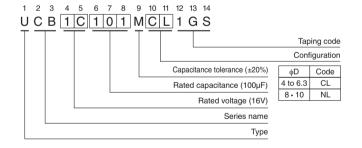




Voltage

V	6.3	10	16	25	35	50
Code	j	Α	С	Е	٧	Н

Type numbering system (Example: 16V 100µF)



						(mm)
φD×L	4 × 7	5 × 7	6.3 × 7	6.3 × 8.7	8 × 10	10 × 10
Α	1.8	2.1	2.4	2.4	2.9	3.2
В	4.3	5.3	6.6	6.6	8.3	10.3
С	4.3	5.3	6.6	6.6	8.3	10.3
Е	1.0	1.3	2.2	2.2	3.1	4.5
L	7.0	7.0	7.0	8.7	10	10
Н	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

UCB

■ Dimensions

V		6.3		10		16		25		35		50	
Cap.(µF)	Code	0J		1A		1C		1E		1V		1H	
0.1	0R1		 		i i				 	%4×7	1.0		i i
0.22	R22		 		!		!		 	%4×7	2.6		
0.33	R33		i I		i I		i		i	%4×7	3.2		i I
0.47	R47		 		 					%4×7	3.8		
1	010		 						 	4×7	6.2		
2.2	2R2				i					4×7	11		i !
3.3	3R3		 		İ				 	4×7	14		i i
4.7	4R7		 		 				 	4×7	15		
10	100		i		İ	4×7	18		i	5×7	25		i
22	220	4×7	22		 	5×7	30		 	6.3×7	42		İ
33	330		 	5×7	35			6.3×7	48	6.3×8.7	57	8×10	77
47	470	5×7	36		i !	6.3×7	50	6.3×8.7	63			8×10	92
100	101	6.3×7	60		İ	6.3×8.7	81	8×10	116			10×10	151
220	221	6.3×8.7	101	8×10	141				 	10×10	216		
330	331	8×10	160		!				! !				
470	471		l I		I I	10×10	254		l I			Case size	Rated
1000	102	10×10	313		I							$\phi D \times L (mm)$	ripple

Rated ripple current (mArms) at 105°C 120Hz

• Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.70	1.00	1.17	1.36	1.50

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.