









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

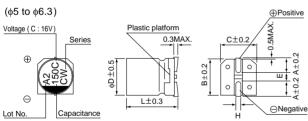


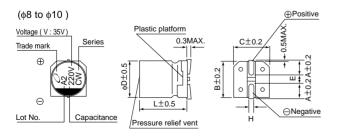


■Specifications

Item	Performance Characteristics										
Category Temperature Range	-25 to +105°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	10 to 470μF										
Capacitance Tolerance	±20% at 120Hz, 20°0	±20% at 120Hz, 20°C									
Leakage Current	After 2 minutes' appli	ication of rate	ed voltage, I	eakage c	urrent is not	t mor	e than 0.0	01 CV or 3 (µ	ıA), whichever is greater.		
					Measureme	nt frec	quency: 12	20Hz at 20°C			
Tangent of loss angle (tan δ)	Rated voltage (V) 6.3 10		10	16	25		35	50			
	tan δ (MAX.)	0.32	0.28	0.26	0.16		0.14	0.14			
	Measurement frequency : 120Hz										
O. 1.177	Rated volta	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										
Endurance	when the capacitors	tan δ	citance char	ige	Within ±30% of the initial capacitance value 300% or less than the initial specified value						
Eliquiance	after the rated voltag	e is applied f	or 7000		ige current		Less than or equal to the initial specified value				
	hours at 105°C.				.9						
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 content of the initial c									Within ±10% of the initial capacitance value		
Resistance to soldering	maintained at 250°C.					+	tan δ	ance change	Less than or equal to the initial specified value		
heat							current	Less than or equal to the initial specified value			
Marking	Black print on the cas	se top.									

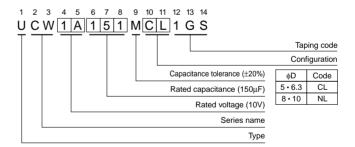
■Chip Type





Voltage						
V	6.3	10	16	25	35	50
Code	i	Α	C	F	V	Н

Type numbering system (Example: 10V 150µF)



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



Dimensions

V		6.3		10		16			25			35			50				
Cap. (µF)	Code		0J			1A		1C		1E		1V			1H				
10	100		 											5×7	2.2	95			
22	220		 					5×7	2.2	95	5×7	2.2	95	5×7	2.2	95			
33	330				5×7	2.2	95				6.3×7	1.1	140	6.3×8.7	1.0	230			
47	470	5×7	2.2	95				6.3×7	1.1	140	6.3×7	1.1	140	6.3×8.7	1.0	230	8×10	0.53	350
100	101	6.3×7	1.1	140				6.3×7	1.1	140	6.3×8.7	1.0	230			İ	8×10	0.53	350
150	151				6.3×7	1.1	140	6.3×8.7	1.0	230									
220	221	6.3×8.7	1.0	230				6.3×8.7	1.0	230	8×10	0.22	600	8×10	0.22	600	10×10	0.35	670
330	331	6.3×8.7	1.0	230				8×10	0.22	600	8×10	0.22	600	10×10	0.16	850	Case size		Rated
470	471	8×10	0.22	600		 	 	8×10	0.22	600	10×10	0.16	850			 	φD×L (mm)	Impedance	ripple

Max. impedance (Ω) at 20°C 100kHz, Rated ripple current (mArms) at 105°C 100kHz

• Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

- 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.