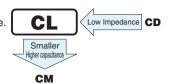
ALUMINUM ELECTROLYTIC CAPACITORS





- Chip type, 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).

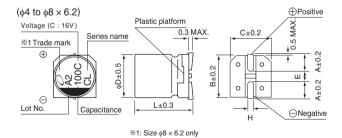


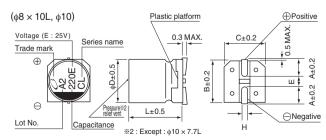


■ Specifications

Item	Performance Characteristics											
Category Temperature Range	– 55 to +105°C	− 55 to +105°C										
Rated Voltage Range	6.3 to 50V	6.3 to 50V										
Rated Capacitance Range	10 to 2200μF	10 to 2200μF										
Capacitance Tolerance	± 20% at 120Hz, 2	± 20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' a	oplication of rated vol	tage, leakage curr	ent is not	more than 0.01	CV or 3 (μA), whiche	ever is greater.				
	Measurement frequency : 120Hz at 20°C											
Tangent of loss angle (tan δ)	Rated voltage (V)		6.3	10	16		25	35	50			
g	tan δ (MAX.)	0.26	0.19	0.16		0.14	0.12	0.10				
	Measurement frequency : 120Hz											
	Rated voltage (V)	6.3	10	16		25	35	50			
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	2	2	2		2	2	2			
		Z-40°C / Z+20°C	3	3	3		3	3	3			
		Z-55°C / Z+20°C	4	4	4		3	3	3			
	The enecifications	listed at right shall be	a mat when the	Capac	Capacitance Change Within ± 3			30% of the initial capacitance value				
Endurance		tored to 20°C after the	tan δ	tan δ 200% or			less than the initial specified value					
	applied for 2000 hours at 105°C. Leakage current Less than or equal to the initial 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.											
Resistance to soldering		e kept on a hot plate f						Within ± 10% of the initial capacitance value				
heat		°C. The capacitors sh d at right when they a			tan δ			Less than or equal to the initial specified value				
	and restored to 20				Leakage curre	ent	Less tha	Less than or equal to the initial specified value				
Marking	Black print on the	Black print on the case top.										

Chip Type



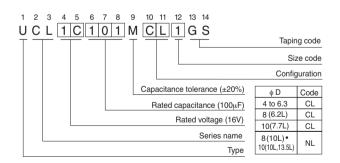


Voltage

٧	6.3	10	16	25	35	50
Code	j	А	С	E	V	Н

Dimension table in next page.

Type numbering system (Example: 16V 100µF)



									(mm)
øD:	4 × 5.8	5 × 5.8	6.3 × 5.8	6.3 × 7.7	8 × 6.2	8 × 10	10 × 7.7	10 × 10	10 × 13.5
A	1.8	2.1	2.4	2.4	3.3	2.9	3.2	3.2	3.2
В	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	10.3
С	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	10.3
Е	1.0	1.3	2.2	2.2	2.3	3.1	4.5	4.5	4.5
L	5.8	5.8	5.8	7.7	6.2	10	7.7	10	13.5
Н	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1				



Specifications

V		6.3		10		16		25		35		50							
Cap. (µF)	Code		0J		-	1A			1C			1E			1V			ΙH	
10	100		 			 	 	4 × 5.8	0.85	160	4 × 5.8	0.85	160	4 × 5.8 5 × 5.8					
22	220	4 × 5.8	0.85	160			<u> </u>	- 4 × 5.8 5 × 5.8			5 × 5.8	0.36	240	5 × 5.8	0.36	240			
33	330		 	 	● 4 × 5.8 				 		5 × 5.8 6.3 × 5.8	''		6.3 × 5.8	0.26	300			
47	470	● 4 × 5.8 5 × 5.8	I	L	6.3 × 5.8	0.26	300	● 5 × 5.8 6.3 × 5.8	I	L ·	6.3 × 5.8	0.26	300	6.3 × 5.8	0.26	300		I I I I	
68	680							6.3 × 5.8	0.26	300	6.3 × 5.8	0.26	300	6.3 × 7.7	0.16	600			
100	101	● 5 × 5.8 			6.3 × 5.8	0.26	300	6.3 × 5.8 •6.3 × 7.7	I		6.3 × 7.7 • 8 × 6.2	I t		●6.3 × 7.7 8 × 10	F 1	+	8 × 10	0.18	670
150	151		 	 - -	6.3 × 5.8	0.26	300	6.3 × 7.7	0.16	600	8 × 10 ●10 × 7.7	$_{i}{i}$		8 × 10 10 × 7.7	1				
220	221	6.3 × 5.8	0.26	300	6.3 × 7.7 8 × 6.2		<u> </u>	6.3 × 7.7 • 8 × 6.2			8 × 10 ●10 × 7.7			8×10 010×7.7			10 × 10	0.12	900
330	331	6.3 × 7.7 • 8 × 6.2	'		8 × 10 ●10 × 7.7	0.08	850	8 × 10 ●10 × 7.7			8 × 10	0.08	850	10 × 10	0.06	1190		I I I I	
390	391		1	1			1		1			1 1		10 × 10	0.08	850			
470	471	8 × 10 ●10 × 7.7	I	⊢	8 × 10 ●10 × 7.7		⊢ – – -	8 × 10 ●10 × 7.7	F	+	10 × 10	0.06	1190	10 × 13.5	0.06	1190		1 1	
560	561		1				ı				10 × 10	0.08	850		1	ı			
680	681				8 × 10	0.08	850	10 × 10	0.06	1190	10 × 13.5	0.06	1190		1	1			
820	821		l I				l	10 × 10	0.08	850								1 1	
1000	102	8 × 10	0.08	850	10 × 10	0.06	1190	10 × 13.5	0.06	1190					l	l I		1 T	
1200	122		I I	 	10 × 10	0.08	850		I I	l I		 			l I	l I		I I	
1500	152	10 × 10	0.06	1190	10 × 13.5	0.06	1190		I I	l I		 			 	l I		l I	
1800 2200	182 222	10 × 10 10 × 13.5		850 1190		 	 		 	 					 	 	Case size φD × L (mm)		Rated ripple

Max. Impedance (Ω) at 20C 100kHz, Rated ripple current (mArms) at 105°C 100kHz \bullet : In this case, $\boxed{6}$ will be put at 12th digit of type numbering system.

• Frequency coefficient of rated ripple current

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

• Taping specifications are given in page 23.

• Please refer to page 3 for the minimum order quantity.

Recommended land size, soldering by refrow are given in page 18, 19.