

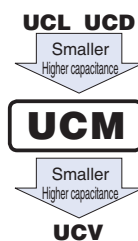
# ALUMINUM ELECTROLYTIC CAPACITORS

## UCM Chip Type, Low Impedance



**TENTATIVE**

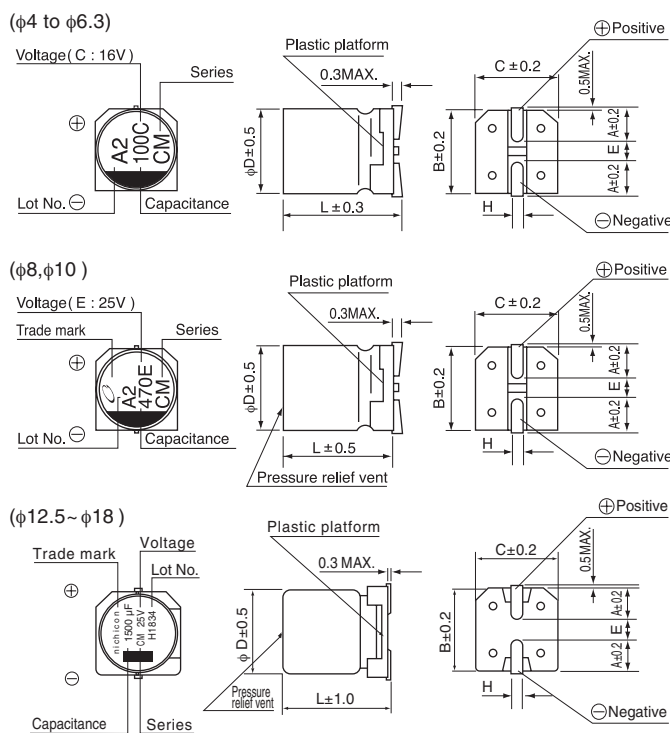
- Chip type, low impedance temperature range up to +105°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).
- AEC-Q200 compliant. Please contact us for details.



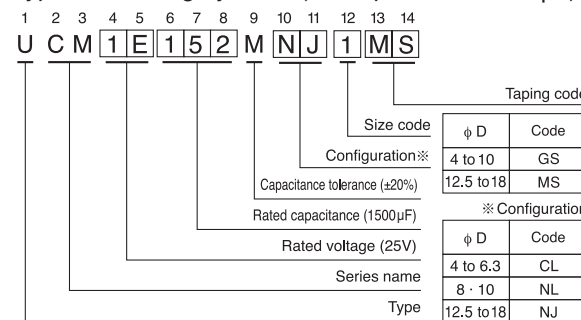
### Specifications

Item	Performance Characteristics										
Category Temperature Range	-55 to +105°C										
Rated Voltage Range	6.3 to 100V										
Rated Capacitance Range	10 to 5100μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01 CV or 3 (μA) , whichever is greater.										
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C										
	Rated voltage (V)	6.3	10	16	25	35	50	63	80	100	
	tan δ (MAX.)	0.26	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.07	
	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.										
Stability at Low Temperature	Measurement frequency : 120Hz										
	Rated voltage (V)	6.3	10	16	25	35	50	63	80	100	
	Impedance ratio Z <sub>T</sub> / Z <sub>20</sub> (MAX.)	Z-25°C / Z+20°C	2	2	2	2	2	2	2	2	2
		Z-40°C / Z+20°C	3	3	3	3	3	3	3	3	3
		Z-55°C / Z+20°C	4	4	4	3	3	3	3	3	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours (2000 hours for φD ≤ 10) at 105°C.										
	Capacitance change	Within ±30% of the initial capacitance value									
	tan δ	200% or less than the initial specified value									
	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 heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.										
	Capacitance change	Within ±10% of the initial capacitance value									
	tan δ	Less than or equal to the initial specified value									
	Leakage current	Less than or equal to the initial specified value									
Marking	Black print on the case top.										

### Chip Type



### Type numbering system (Example : 25V 1500μF)



φD×L	4 × 5.8	5 × 5.8	6.3 × 5.8	6.3 × 7.7	8 × 10	10 × 10	12.5 × 13.5	12.5 × 21	16 × 16.5	16 × 21.5	18 × 16.5	18 × 21.5
A	1.8	2.1	2.4	2.4	2.9	3.2	5.15	5.15	5.65	5.65	6.65	6.65
B	4.3	5.3	6.6	6.6	8.3	10.3	13.6	13.6	17.1	17.1	19.1	19.1
C	4.3	5.3	6.6	6.6	8.3	10.3	13.6	13.6	17.1	17.1	19.1	19.1
E	1	1.3	2.2	2.2	3.1	4.5	3.3	3.3	5.8	5.8	5.8	5.8
L	5.8	5.8	5.8	7.7	10	10	13.5	21	16.5	21.5	16.5	21.5
H	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	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4

V	6.3	10	16	25	35	50
Code	j	A	C	E	V	H

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# ALUMINUM ELECTROLYTIC CAPACITORS

## UCM

### ■ Dimensions

Cap. ( $\mu$ F)	V Code	6.3			10			16			25			35			50				
		0J			1A			1C			1E			1V			1H				
10	100																● 4□5.8	2.30	85		
																	5□5.8	0.88	165		
22	220										4□5.8	1.00	160	4□5.8	1.00	160	5□5.8	0.88	165		
33	330										4□5.8	1.00	160	5□5.8	0.36	240					
47	470									4□5.8	1.00	160	5□5.8	0.36	240	5□5.8	0.36	240	6.3□5.8	0.68	195
68	680					4□5.8	1.00	160	5□5.8	0.36	240	5□5.8	0.36	240	6.3□5.8	0.26	300				
100	101	4□5.8	1.00	160					5□5.8	0.36	240	6.3□5.8	0.26	300	6.3□5.8	0.26	300	6.3□7.7	0.34	350	
150	151				5□5.8	0.36	240	6.3□5.8	0.26	300	6.3□7.7	0.16	600	6.3□7.7	0.16	600					
220	221	5□5.8	0.36	240	6.3□5.8	0.26	300	6.3□5.8	0.26	300	6.3□7.7	0.16	600						8□10	0.18	670
330	331	6.3□5.8	0.26	300	6.3□7.7	0.16	600	6.3□7.7	0.16	600						8□10	0.08	850	10□10	0.12	900
470	471	6.3□7.7	0.16	600	6.3□7.7	0.16	600						8□10	0.08	850						
560	561															10□10	0.06	1190			
680	681	6.3□7.7	0.16	600						8□10	0.08	850									
750	751																		12.5□21	0.08	1970
820	821											10□10	0.06	1190					16□16.5	0.08	1820
910	911														12.5□13.5	0.058	1420				
1000	102				8□10	0.08	850	10□10	0.06	1190											
1100	112																		18□16.5	0.078	1980
1200	122																		16□21.5	0.05	2440
1500	152	8□10	0.08	850	10□10	0.06	1190					12.5□13.5	0.058	1420							
1600	162															12.5□21	0.046	2080	18□21.5	0.05	2550
1800	182															16□16.5	0.047	1910			
2200	222	10□10	0.06	1190												18□16.5	0.045	2060			
2400	242											12.5□21	0.046	2080							
2700	272											16□16.5	0.047	1910	16□21.5	0.034	2540				
3600	362											18□16.5	0.045	2060	18□21.5	0.032	2640				
3900	392											16□21.5	0.034	2540							
5100	512											18□21.5	0.032	2640					Case size $\phi$ D□L (mm)	Impedance	Rated ripple

● In this case, [6] will be put at 12th digit of type numbering system.

Cap. ( $\mu$ F)	V Code	63			80			100				
		1J			1K			2A				
130	131							12.5□13.5	0.18	1050		
220	221						12.5□13.5	0.18	1050	12.5□21	0.11	1580
240	241									16□16.5	0.10	1500
330	331									18□16.5	0.098	1670
360	361	12.5□13.5	0.14	1250	12.5□21	0.11	1580					
390	391				16□16.5	0.10	1500	16□21.5	0.066	2040		
510	511				18□16.5	0.098	1670	18□21.5	0.063	2140		
560	561	12.5□21	0.086	1850	16□21.5	0.066	2040					
620	621	16□16.5	0.082	1740								
750	751				18□21.5	0.063	2140					
820	821	18□16.5	0.08	1880								
910	911	16□21.5	0.055	2330								
1200	122	18□21.5	0.054	2430								

MAX. Impedance ( $\Omega$ ) 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

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