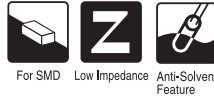


# ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

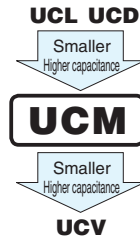
# UCM

Chip Type, Low Impedance



Expanded

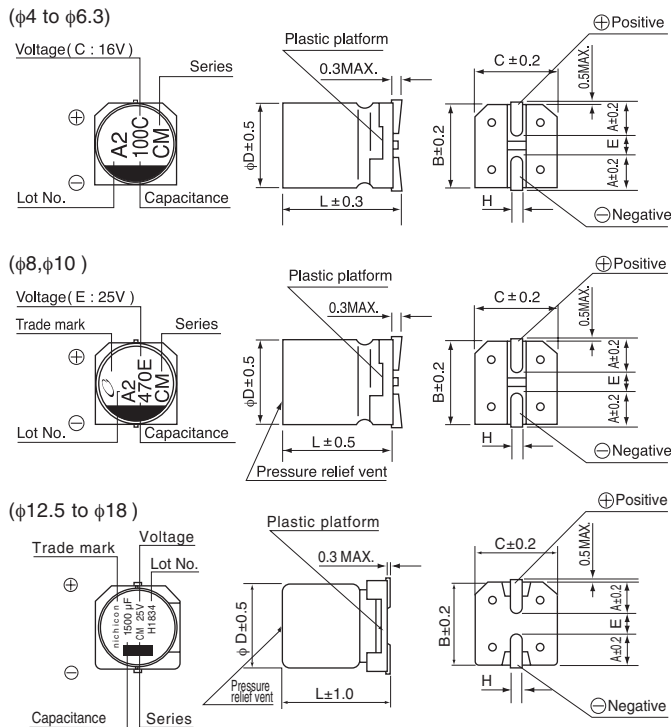
- Chip type, low impedance temperature range up to +105°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



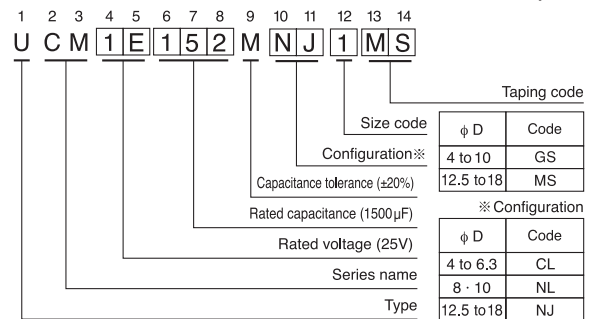
## Specifications

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																																						
	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>tan δ (MAX.)</td> <td>0.26</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> <td>0.08</td> <td>0.07</td> </tr> </table> <p>For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.(φ12.5 to φ18)</p>	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																		
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Stability at Low Temperature	Measurement frequency : 120Hz																																						
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Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	2	2	2	2	2	2	2	2																														
	Z-40°C / Z+20°C	3	3	3	3	3	3	3	3																														
	Z-55°C / Z+20°C	4	4	4	3	3	3	3	3																														
Endurance	<p>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.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±30% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>200% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	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																																
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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	<p>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.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±10% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>Less than or equal to the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	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																																
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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	(mm)											
	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 5.8	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

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

● Dimension table in next page.



■ Dimensions

Cap. (μF)	V	6.3			10			16			25			35			50				
		Code			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		
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 φD□L (mm)	Impedance	Rated ripple

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

Cap. (μF)	V	63			80			100					
		Code			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						Case size φD□L (mm)	Impedance	Rated ripple	

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

- 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.

● 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

单击下面可查看定价，库存，交付和生命周期等信息

[>>Nichicon\(尼吉康\)](#)