

ALUMINUM ELECTROLYTIC CAPACITORS

UWF

Chip Type, Low Impedance



- Chip type, low impedance temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- 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.

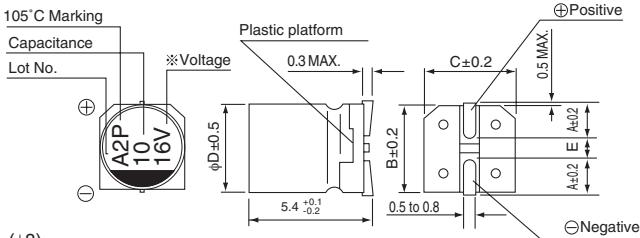


Specifications

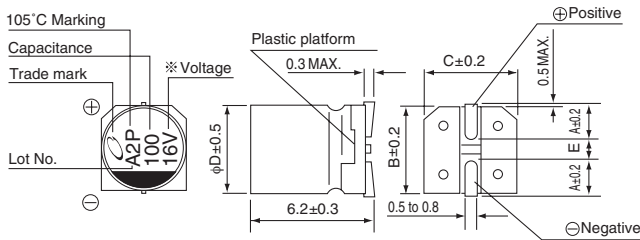
Item	Performance Characteristics																							
Category Temperature Range	-55 to +105°C																							
Rated Voltage Range	6.3 to 35V																							
Rated Capacitance Range	1 to 220μF																							
Capacitance Tolerance	±20% at 120Hz, 20°C																							
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV 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																		
Stability at Low Temperature	Measurement frequency : 120Hz																							
	Rated voltage (V)		6.3	10	16	25	35																	
	Impedance ratio	Z-25°C / Z+20°C	2	2	2	2	2																	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C.		<table border="1"> <tr> <td>Capacitance change</td> <td colspan="5">Within ±20% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td colspan="5">200% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="5">Less than or equal to the initial specified value</td> </tr> </table>				Capacitance change	Within ±20% 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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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.		<table border="1"> <tr> <td>Capacitance change</td> <td colspan="5">Within ±10% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td colspan="5">Less than or equal to the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="5">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																							
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.		<table border="1"> <tr> <td>Capacitance change</td> <td colspan="5">Within ±10% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td colspan="5">Less than or equal to the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="5">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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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

(φ4 to φ6.3)



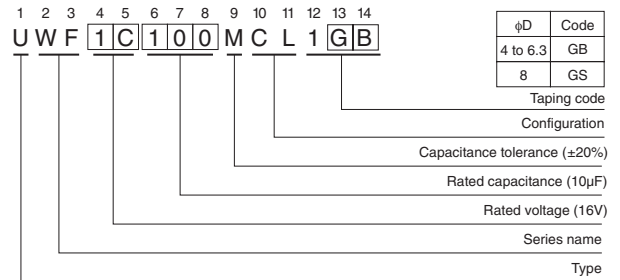
(φ8)



※ Voltage mark for 6.3V is 6V.

	(mm)			
φD	4	5	6.3	8
A	1.8	2.1	2.4	3.3
B	4.3	5.3	6.6	8.3
C	4.3	5.3	6.6	8.3
E	1.0	1.3	2.2	2.3

Type numbering system (Example : 16V 10μF)



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

● Dimension table in next page.



■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 2 minutes)	Impedance (Ω) MAX. (20°C/100kHz)	Rated Ripple (mArms) (105°C/100kHz)	Part Number
6.3 (0J)	22	4×5.4	0.22	3	5.0	50	UWF0J220MCL1GB
	33	5×5.4	0.22	3	2.6	80	UWF0J330MCL1GB
	47	5×5.4	0.22	3	2.6	80	UWF0J470MCL1GB
	68	6.3×5.4	0.22	4.284	1.3	115	UWF0J680MCL1GB
	100	6.3×5.4	0.22	6.3	1.3	115	UWF0J101MCL1GB
	150	8×6.2	0.22	9.45	0.8	150	UWF0J151MCL1GS
	220	8×6.2	0.22	13.86	0.8	150	UWF0J221MCL1GS
10 (1A)	22	5×5.4	0.19	3	2.6	80	UWF1A220MCL1GB
	33	5×5.4	0.19	3.3	2.6	80	UWF1A330MCL1GB
	47	6.3×5.4	0.19	4.7	1.3	115	UWF1A470MCL1GB
	68	6.3×5.4	0.19	6.8	1.3	115	UWF1A680MCL1GB
	100	8×6.2	0.19	10	0.8	150	UWF1A101MCL1GS
	150	8×6.2	0.19	15	0.8	150	UWF1A151MCL1GS
16 (1C)	10	4×5.4	0.16	3	5.0	50	UWF1C100MCL1GB
	15	5×5.4	0.16	3	2.6	80	UWF1C150MCL1GB
	22	5×5.4	0.16	3.52	2.6	80	UWF1C220MCL1GB
	33	6.3×5.4	0.16	5.28	1.3	115	UWF1C330MCL1GB
	47	6.3×5.4	0.16	7.52	1.3	115	UWF1C470MCL1GB
	68	8×6.2	0.16	10.88	0.8	150	UWF1C680MCL1GS
	100	8×6.2	0.16	16	0.8	150	UWF1C101MCL1GS
25 (1E)	4.7	4×5.4	0.14	3	5.0	50	UWF1E47MCL1GB
	6.8	4×5.4	0.14	3	5.0	50	UWF1E68MCL1GB
	10	5×5.4	0.14	3	2.6	80	UWF1E100MCL1GB
	15	6.3×5.4	0.14	3.75	1.3	115	UWF1E150MCL1GB
	22	6.3×5.4	0.14	5.5	1.3	115	UWF1E220MCL1GB
	33	6.3×5.4	0.14	8.25	1.3	115	UWF1E330MCL1GB
	47	8×6.2	0.14	11.75	0.8	150	UWF1E470MCL1GS
	68	8×6.2	0.14	17	0.8	150	UWF1E680MCL1GS
35 (1V)	1	4×5.4	0.12	3	5.0	50	UWF1V010MCL1GB
	1.5	4×5.4	0.12	3	5.0	50	UWF1V1R5MCL1GB
	2.2	4×5.4	0.12	3	5.0	50	UWF1V2R2MCL1GB
	3.3	4×5.4	0.12	3	5.0	50	UWF1V3R3MCL1GB
	4.7	4×5.4	0.12	3	5.0	50	UWF1V4R7MCL1GB
	6.8	5×5.4	0.12	3	2.6	80	UWF1V6R8MCL1GB
	10	5×5.4	0.12	3.5	2.6	80	UWF1V100MCL1GB
	15	6.3×5.4	0.12	5.25	1.3	115	UWF1V150MCL1GB
	22	6.3×5.4	0.12	7.7	1.3	115	UWF1V220MCL1GB
	33	8×6.2	0.12	11.55	0.8	150	UWF1V330MCL1GS
	47	8×6.2	0.12	16.45	0.8	150	UWF1V470MCL1GS

- For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.
- Please select UUU if high C/V products are required.

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