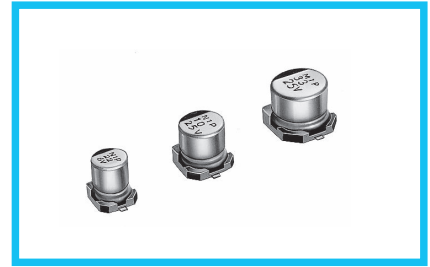


# ALUMINUM ELECTROLYTIC CAPACITORS

## 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.

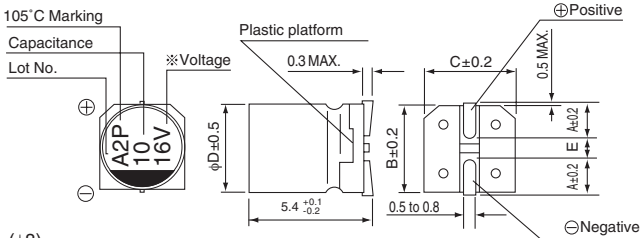


### Specifications

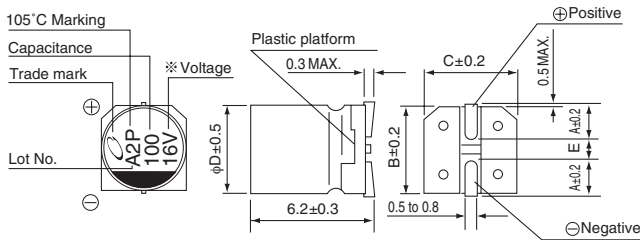
Item	Performance Characteristics							
Category Temperature Range	-55 to +105°C							
Rated Voltage Range	6.3 to 35V							
Rated Capacitance Range	1 to 220μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current 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	ZT / Z20 (MAX.)		Z-55°C / Z+20°C	4	4	3	3	3
	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.		Capacitance change		Within ±20% of the initial capacitance 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.		tan δ		200% or less than the initial specified value			
	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.		Leakage current		Less than or equal to the initial specified value			
Resistance to soldering heat	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.		Capacitance change		Within ±10% of the initial capacitance value			
	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.		tan δ		Less than or equal to the initial specified value			
Marking	Black print on the case top.		Leakage current		Less than or equal to the initial specified value			

### Chip Type

(φ4 to φ6.3)



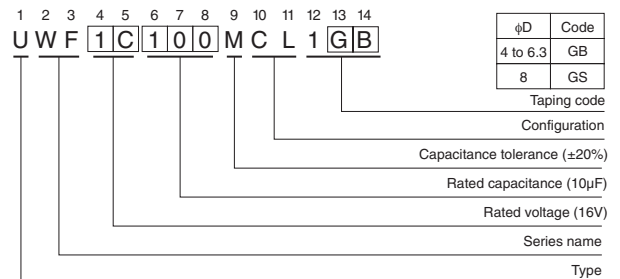
(φ8)



※ 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.

UWF

## ■ 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	UWF1E470MCL1GB
	6.8	4×5.4	0.14	3	5.0	50	UWF1E680MCL1GB
	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	

- Taping specifications are given in page 20.
- Recommended land size, soldering by reflow are given in page 16, 17.
- Please select UUU(p.184) if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.

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