# ALUMINUM ELECTROLYTIC CAPACITORS



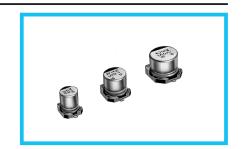






- Chip type, low impedance temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).

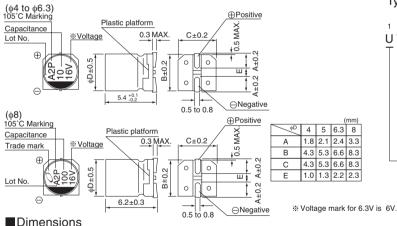




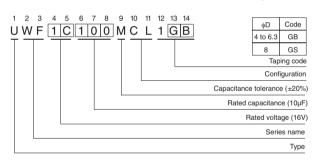
### ■Specifications

- opodinoanono												
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, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.											
	Measurement frequency : 120Hz at 20°C											
Tangent of loss angle (tan $\delta$ )	Rated voltage (V)	() 6.3		10	16	2	25	35				
	tan δ (MAX.)	0.22	(	0.19	0.16	0.	.14	0	).12			
	Measurement frequency : 120Hz											
Stability at Low Temperature	Rated voltage (V)			6.3	10	16	25		35			
	Impedance ratio	Z-25°C / Z+2	20°C	2	2	2	2		2			
	ZT / Z20 (MAX.)	Z-55°C / Z+2	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						ance ch	ange	Within ±	20% of the initial capacitance value		
Endurance							tan δ		200% or less than the initial specified value			
	voltage is applied	05°C.		Leakage current			Less than	Less than or equal to the initial specified value				
Shelf Life										tment based on JIS C 5101-4 clause 4.1 at		
	20°C, they shall meet the specified values for the endurance characteristics listed above.											
5	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the							citano	ce change	Within ±10% of the initial capacitance value		
Resistance to soldering								tan δ		Less than or equal to the initial specified value		
heat	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 specific control of the initial spec									Less than or equal to the initial specified value		
Marking	Black print on the ca		· ·									
naming	Diagn print on the oc	ioo iop.										

# ■Chip Type



## Type numbering system (Example: 16V 10µF)



- Differsions																
	V	6.3		10			16			25			35			
Cap. (µF)	Code	0J		1A			1C			1E			1V			
1	010		l I						!					4	5.0	50
1.5	1R5		i i	i I		l I			i I			i		4	5.0	50
2.2	2R2		l I	l I		l I	1		1			 	1	4	5.0	50
3.3	3R3		l I	ļ !		 			!	!				4	5.0	50
4.7	4R7		İ			l					4	5.0	50	4	5.0	50
6.8	6R8		i I	i I		i I	i I		i I	i	4	5.0	50	5	2.6	80
10	100		! !	!			!	4	5.0	50	5	2.6	80	5	2.6	80
15	150		i			İ		5	2.6	80	6.3	1.3	115	6.3	1.3	115
22	220	4	5.0	50	5	2.6	80	5	2.6	80	6.3	1.3	115	6.3	1.3	115
33	330	5	2.6	80	5	2.6	80	6.3	1.3	115	6.3	1.3	115	8	0.8	150
47	470	5	2.6	80	6.3	1.3	115	6.3	1.3	115	8	0.8	150	8	0.8	150
68	680	6.3	1.3	115	6.3	1.3	115	8	0.8	150	8	0.8	150		i	
100	101	6.3	1.3	115	8	0.8	150	8	8.0	150		l I			1	
150	151	8	0.8	150	8	0.8	150			1				Case size	Impedance	Rated
220	221	8	0.8	150		İ				i		 	i	φD (mm)	impedance	Rated ripple

### 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

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 select UJ(p.160) series if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity.

CAT.8100D

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# Nichicon:

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UWF1A151MBR1GS UWF1V470MCL1GS UWF0J221MCL1GS UWF0J101MCL1GB UWF1C100MCL1GB
UWF1E680MCL1GS UWF1V100MCL1GB UWF1A101MCL1GS UWF1C220MCL1GB UWF1C470MCL1GB
UWF1E330MCL1GB UWF1V2R2MCL1GB UWF0J330MCL1GB UWF0J470MCL1GB UWF0J680MCL1GB
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UWF1A151MCL1GS UWF1C150MCL1GB UWF1C330MCL1GB UWF1C680MCL1GS UWF1E150MCL1GB
UWF1E470MCL1GS UWF1V010MCL1GB UWF1V1R5MCL1GB UWF1V3R3MCL1GB UWF1V4R7MCL1GB
UWF1V6R8MCL1GB UWF1V150MCL1GB UWF1V330MCL1GS UWF1C101MCL1GS UWF1E100MCL1GB
UWF1E220MCL1GB UWF1E4R7MCL1GB UWF1V220MCL1GB UWF0J220MCL1GB UWF1E6R8MCL1GB
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