## **ALUMINUM ELECTROLYTIC CAPACITORS**

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 (2002/95/EC).



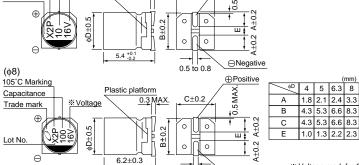


## Specifications

■Chip Type

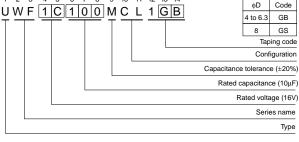
■ Specifications		•				- 1						
Item	Performance Characteristics											
Category Temperature Range	−55 to +105°C											
Rated Voltage Range	6.3 to 35V											
Rated Capacitance Range	1 to 220µF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.											
	Measurement frequency : 120Hz, Temperature : 20°C											
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3		10	16	2			35			
	tan δ (MAX.)	0.22		0.19	0.16	0.	14	0.	12			
	Measurement frequency : 120Hz											
	Rated voltage (V)			6.3	10	16	25		35			
Stability at Low Temperature	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 $ an \delta$							nge	Within ±2	20% of the initial capacitance value		
Endurance									200% or	or less than the initial specified value		
	voltage is applied	s at 1	05°C.		current		Less than	nan 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.												
	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 that the characteristic requirements are considered at the control of the characteristic requirements.							tance	e change	Within ±10% of the initial capacitance value		
Resistance to soldering								tan δ		Less than or equal to the initial specified value		
heat								je cu	rrent	Less than or equal to the initial specified value		
Marilian	from the plate and restored to 20°C.											
Marking	Black print on the ca	ise top.										

## $(\phi 4 \text{ to } \phi 6.3)$ ⊕Positive 105°C Marking Capacitance 0.3 MAX. C±0.2 Lot No.



## 1 2 3 4 5 6 7 8 9 10 11 12 13 14 φD UWF 1C100 MC L 1 GB 4 to 6.3

Type numbering system (Example: 16V 10µF)



0	6.2±0.3		
imensions		0.5 to 0.8 ⊝Negative	% Voltage mark for 6.3V is 6V.

■Dimensions	} }	•	0.5	to 0.8	⊝Negative	<u>*</u> * V	oltage mar	k for 6.3V is	6V.							
	V		6.3			10			16			25			35	
Cap. (µF)	Code		0J			1A			1C			1E			1V	
1	010		I I	I I		I I	T I			I I		l	I I	4	5.0	50
1.5	1R5		I I	l I		I I	T I			I I			I I	4	5.0	50
2.2	2R2		 	 		I I				l I		l I	l I	4	5.0	50
3.3	3R3		 	l I		l I	1		l	l I		l I	<u> </u> 	4	5.0	50
4.7	4R7		 	l I		l I	1			]	4	5.0	50	4	5.0	50
6.8	6R8		[ [	I I		I I	1			] 	4	5.0	50	5	2.6	80
10	100		l I	I I		I I	1	4	5.0	¦ 50	5	2.6	80	5	2.6	80
15	150		 	l I		l I	1	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		İ	i I
100	101	6.3	1.3	115	8	0.8	150	8	0.8	150			į		İ	
150	151	8	0.8	150	8	0.8	150			j i			İ	Case size	Ilmnodonoo	Rated
220	221	8	0.8	150			İ			į			İ	φD (mm)	Impedance	Rated ripple

Frequency coefficient of rated ripple current

- 1 7					
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.102) series if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity.