# **ALUMINUM ELECTROLYTIC CAPACITORS**

6mmL Chip Type, Wide Temperature Range





- Chip type with load life 2000 hours at +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.

Plastic platform

5.8±0.3

0.3MAX.

B±0.2

C±0.2

0.5 to 0.8

0 0

0

• Compliant to the RoHS directive (2011/65/EU).





#### ■Specifications

Item	Performance Characteristics											
Category Temperature Range	-55 to +105°C											
Rated Voltage Range	4 to 50V											
Rated Capacitance Range	0.1 to 100μF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (µA) , whichever is greater.											
	Measurement frequency :120Hz at 20°C											
Tangent of loss angle (tan δ)	Rated voltage (V)	4	6.3		10	16		25	3	5	50	
	tan δ (MAX.)	0.37	0.28	3 (	).24	0.20	0	.16	0.	13	0.12	J
	Measurement frequency :120Hz											
	Rated vo	oltage (V)		4	6.3	10	16		25	35	50	
Stability at Low Temperature	Impedance ratio	Z-25°C / 2	Z+20°C	6	3	3	2		2	2	2	I
	ZT / Z20 (MAX.)	Z-40°C / Z	Z+20°C	12	8	5	4		3	3	3	I
	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at					acitance ge	Within ±25% of the initial capacitance value (16V or less) Within ±20% of the initial capacitance value (25V or more)					
Endurance									200% or less than the initial specified value			
	105°C.  Leakage current Less than or equal to the initial specified value								ified 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	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic							Capacitance change		Within ±	Within ±10% of the initial capacitance value	
										_	Less than or equal to the initial specified value	
	requirements listed at right when they are removed from the plate and restored to 20°C.						Leakage current Less th				an or equal to the initial specified value	
Marking	Black print on the case top.											

⊕Positive

A±0.2

ш 4

○Negative

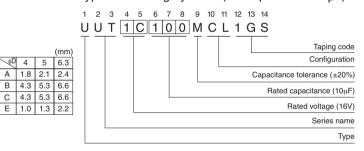
### ■Chip Type

Capacitance

Lot No.

105°C Marking

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



## Dimensions

※ Voltage mark for 6.3V is 「6V」.

Difficiolog															
	V 4 6.3		3	10		16		25		35		50			
Cap.(µF)	Code	e OG		0J		1A		1C		1E		1V		1H	
0.1	0R1						1							4	1.0
0.22	R22				i		i		i				i	4	2.6
0.33	R33				 		 						 	4	3.2
0.47	R47													4	3.8
1	010				i I						i			4	6.2
2.2	2R2				! !									4	11
3.3	3R3				 									4	14
4.7	4R7				i I		i I			4	13	4	15	5	19
10	100				! !		 	4	18	5	23	5	25	6.3	30
22	220	4	22	4	22	5	27	5	30	6.3	38	6.3	42		
33	330	5	30	5	¦ 30	5	35	6.3	40	6.3	48		l I		ı
47	470	5	36	5	36	6.3	46	6.3	50						Rated
100	101	6.3	60	6.3	60	6.3	60							Case size	ripple

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Rated ripple current (mArms) at 105°C 120Hz

#### Frequency coefficient of rated ripple current

•											
Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more						
Coefficient	0.70	1.00	1.17	1.36	1.50						

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UX(p.154), UJ(p.160) series if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.