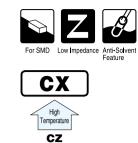
### **ALUMINUM ELECTROLYTIC CAPACITORS**



Chip Type, High Reliability Low temperature ESR specification

- ●Chip type, high temperature range, for +135°C use.
- ●Added ESR specification after the test at -40°C.
- Applicable to automatic mounting machine fed with carrier tape.
- ●Compliant to the RoHS directive (2002/95/EC).



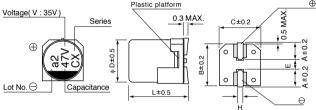


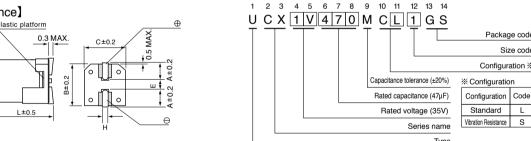
#### Specifications

Item	Performance Characteristics									
Category Temperature Range	-40 to +135°C									
Rated Voltage Range	10 to 35V									
Rated Capacitance Range	47 to 470μF									
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.									
Tangent of loss angle (tan $\delta$ )	Rated voltage (V) 10 16 25 35 Measurement frequency : 120Hz, Temperature : 20°C									
Tangent or loss angle (tan 0)	tan $\delta$ (MAX.) 0.30 0.23 0.18 0.16									
	Rated voltage (V) 10 16 25 35 Measurement frequency : 120Hz									
Stability at Low Temperature	Impedance ratio   ZT / Z20 (MAX.)   Z-40°C / Z+20°C   12   8   6   4									
Endurance	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 135°C  Capacitance Change   Within ± 30% of the initial capacitance value to 300% or less than the initial specified value Less than or equal to the initial specified value.									
Shelf Life	After storing the capacitors under no load at 135°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 shall be kept on the hot plate for 30 seconds, which is maintained to 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.  Capacitance Change Within $\pm$ 10% of the initial capacitance value $\tan \delta$ 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.									

#### ■ Radial Lead Type

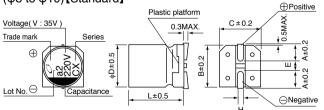
### (φ6.3) [Vibration Resistance]





Voltage(V: 35V)

## (φ8 to φ10) [Standard]



E 0.5MAX.	A±0.2 A±0.2	
∋Neg	gative	

(mm)



(φ8 to φ10) [Vibration Resistance]

θ

Aid electrode

Package code

Size code Configuration ※

<u>+</u>

Standard	

φDXL	8×10	10×10	
Α	2.9	3.2	
В	8.3	10.3	
С	8.3	10.3	
E	3.1	4.5	
L	10	10	
Н	0.8 to 1.1	0.8 to 1.1	

(mm)

Vibration Resistance

			()
φDXL	6.3×10	8×10	10×10
Α	2.4	2.9	3.2
В	6.6	8.3	10.3
С	6.6	8.3	10.3
E	2.2	3.1	4.5
L	10.8	10	10
Н	0.5 to 0.8	1.1 to 1.5	1.1 to 1.5

Rated Voltage

Type numbering system (Example: 35V 47µF)

Plastic platform

	•							
V	10	16	25	35				
Code	Α	С	E	٧				

Design, Specifications are subject to change without notice.

## **ALUMINUM ELECTROLYTIC CAPACITORS**



### **■**Dimensions

V 10 (µF) Code 1A		10			16		25		35			
		1C		1E		1V						
47	470	-	1	1			1	!	1 1	1 1	1 1	●6.3×10 0.25 4 15 197
47	470		- 1	į	į		į	į		į į		8×10 0.20 3 1 12 270
68	680		i	i	1		-	i	1 1	1 1	1 1	8×10 0.20 3 12 270
	100 101		i	- 1	1		●6.3 × 10	0.25 4	15 197	0 \	1 10 070	●6.3×10 0.25 4 15 197
100		01 1 1 1		8 × 10	0.20 3	12 270	8 × 10   0.20   3   12   270	12 270	8×10,0.20, 3, 12, 270			
220	221	8 × 10 ¦0	.20 ¦	3 ¦	12	270	8 × 10 ¦	0.20 3	12 270	10 × 10 0.15 2	12   500	10×10 0.15 2 10 500
330	331	● 8 × 10 ¦ 0 10 × 10 ¦ 0	'-	3   2	. <u> :</u>	270 500	10 × 10	0.15 2	10 500	10 × 10   0.15   2	10 500	After     After       After
470	471	10 × 10 ¦ 0	.15¦	2 ¦	10	500	10 × 10	0.15 2	10   500	I I	I I	ESR

MAX. ESR  $(\Omega)$  at 20°C / -40°C 100kHz, Rated ripple current(mArms) at 135°C 100kHz 
•In this case, • will be put at 12th digit of type numbering system.

### • Frequency coefficient of rated ripple current

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

Design, Specifications are subject to change without notice.

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UCX1A471MCL1GS UCX1A331MCL6GS UCX1V680MCL1GS UCX1A221MCL1GS UCX1A331MCL1GS
UCX1E331MCL1GS UCX1V221MCL1GS UCX1V470MCS6GS UCX1C471MCL1GS UCX1C221MCL1GS
UCX1C331MCL1GS UCX1C101MCL1GS UCX1V101MCS6GS UCX1H681MNS1MS UCX1H391MNQ1MS
UCX1H102MNS1MS UCX1V222MNS1MS UCX1V152MNS1MS UCX1H561MNQ1MS UCX1H471MNS1MS
UCX1E272MNS1MS UCX1H471MNQ1MS UCX1H561MNS1MS UCX1V182MNS1MS UCX1H391MNS1MS
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UCX1V182MNQ1MS
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