ALUMINUM ELECTROLYTIC CAPACITORS





- Chip type acoustic series within the wide temperature range.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU)



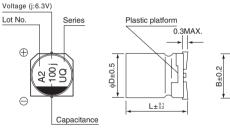


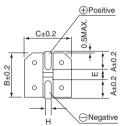
■ Specifications

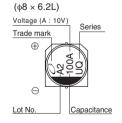
Item	Performance Characteristics											
Category Temperature Range	-40 to +105°C											
Rated Voltage Range	6.3 to 50V											
Rated Capacitance Range	0.1 to 1000µF											
Capacitance Tolerance	±20% (120Hz, 20°	C)										
Leakage Current	After 1 minute's app	plication of	rated v	oltage a	t 20°C, le	akage	curre	ent is not	more	than 0	.03 CV	or 4 (μA) , whichever is greater.
					N	/leasur	emen	t frequenc	y : 12	20Hz at 2	20°C	
Tangent of loss angle (tan δ)	Rated voltage (V)	Rated voltage (V) 6.3		0	16	2	5	35		50		
	tan δ (MAX.)	tan δ (MAX.) 0.30 0		26	0.22	0.	16	0.13		0.12		
	Measurement frequency : 120Hz											
	Rated voltage (V)			6.3	10	10	6	25	3	5	50	
Stability at Low Temperature	· ·	Z-25°C / Z-	+20°C	4	3	2	2	2	2	2	2	
	ZT / Z20 (MAX.)	Z-40°C / Z-	+20°C	8	5	4	ļ	3	3	3	3	
	The specifications listed at right shall be met when Capacitance change Within ±20% of the initial capacitance via											
Endurance	the capacitors are						200% or less than the initial specified value					
	voltage is applied for 1000 hours at 105°C. Leakage current Less than 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 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,							Canacitance change			in +10°	% of the initial capacitance value
Resistance to soldering	which is maintained at 250°C. The capacitors shall meet											
heat		the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.							Leakage current			or equal to the initial specified value
Marking	Marking Black print on the case top.											

■Chip Type

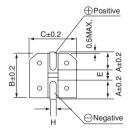
(φ4 to φ6.3)

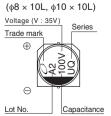




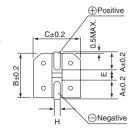




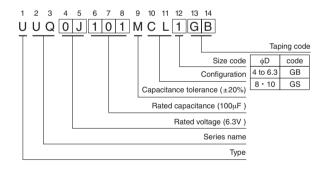








Type numbering system (Example: 6.3V 100µF)



						(mm)
φD×L	4 × 5.4	5 × 5.4	6.3 × 5.4	8 × 6.2	8 × 10	10 × 10
Α	1.8	2.1	2.4	3.3	2.9	3.2
В	4.3	5.3	6.6	8.3	8.3	10.3
С	4.3	5.3	6.6	8.3	8.3	10.3
E	1.0	1.3	2.2	2.3	3.1	4.5
L	5.4	5.4	5.4	6.2	10	10
Н	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

Rated vo	oltage							
V	6.3	10	16	25	35	50		
Code	j	Α	С	Е	V	Н		



■ Dimensions

V Cap.(μF) Code		6.3 0J		10 1A		16 1C		25 1E		35 1V		50 1H	
0.22	R22		1		 						 	4 × 5.4	2.6
0.33	R33		į				į					4 × 5.4	3.2
0.47	R47				1							4 × 5.4	3.8
1	010				1						 	4 × 5.4	6.2
2.2	2R2				į							4 × 5.4	11
3.3	3R3											4 × 5.4	14
4.7	4R7		_					4 × 5.4	13	4 × 5.4	15	5 × 5.4	19
10	100		i	4 × 5.4	22	4 × 5.4	18	5 × 5.4	23	5 × 5.4	25	6.3 × 5.4	30
22	220	4 × 5.4	22	5 × 5.4	27	5 × 5.4	30	6.3×5.4	38	6.3×5.4	42	8 × 6.2	51
33	330	5 × 5.4	30	5 × 5.4	35	6.3 × 5.4	40	6.3 × 5.4	48	8 × 6.2	59	8 × 10	140
47	470	5 × 5.4	36	6.3×5.4	46	6.3 × 5.4	50	8 × 6.2	66	8 × 10	155	8 × 10	180
100	101	6.3 × 5.4	60	○6.3 × 5.4	60 (90)	● 8 × 6.2	102 (210)	8 × 10	155	10 × 10	300	10 × 10	220
220	221	● 8 × 6.2	102 (210)	● 8×6.2	102 (210)	△8×10	210 (310)	10 × 10	300	10 × 10	300		
330	331	● 8 × 6.2	102 (210)	△ 8×10	210 (310)	∆8×10	210 (310)						
470	471	△8 × 10	210 (310)	△ 8×10	210 (310)	△8×10	210 (310)					Case size	Rated
1000	102	10 × 10	310									φD×L (mm)	ripple

Size $\phi 8 \times 6.2L$ is available for capacitors marked. " \circ "

Size $\varphi8\times10L$ is available for capacitors marked. " \bullet "

Size $\varphi 10 \times 10L$ is available for capacitors marked. " \vartriangle "

※ In this case, ⑥ will be put at 12th digit of type numbering system.

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 refer to page 3 for the minimum order quantity.

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