ALUMINUM ELECTROLYTIC CAPACITORS





- Chip type acoustic series within the wide temperature range.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC)



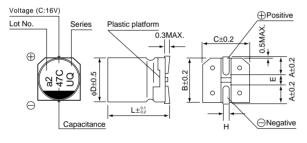


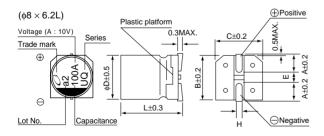
Specifications

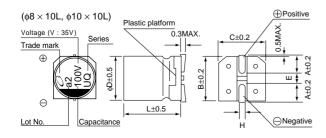
Item	Performance Characteristics												
Category Temperature Range	-40 to +105°C	40 to +105°C											
Rated Voltage Range	6.3 to 50V	3 to 50V											
Rated Capacitance Range	0.1 to 1000μF	.1 to 1000μF											
Capacitance Tolerance	±20% (120Hz, 20°	C)											
Leakage Current	After 1 minute's ap	plication of	rated v	oltage,	leakage cu	ırrent	is not	t more tha	an 0.	.03 C	V or 4 (μΑ	A), whichever is greater.	
				Mea	asurement f	reque	ncy : 1	120Hz, Te	mpe	rature	: 20°C		
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10		16	2	5	35		5	50		
	tan δ (MAX.)	0.30	0.30 0.26		0.22	0.	16	0.13		0.	.12		
	Measurement frequency : 120Hz												
0. 1.00	Rated voltage (V)			6.3	6.3 10		6	25	3	5	50		
Stability at Low Temperature	Impedance ratio	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		3		3	3		
	The specifications listed at right shall be met when						Capacitance change Within ±20				in ±20% c	of initial value	
Endurance	the capacitors are		tan δ 200% or				2009	% or less of	ess of initial specified value				
	voltage is applied for 1000 hours at 105°C. Leakage current Less than or equal to the initial specified val									qual to the initial specified value			
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.												
5	The capacitors shall be kept on the hot plate maintained						Capacitance change Within ±10% of initial value				% of initial value		
Resistance to soldering	at 250°C for 30 sec						tan 8		9		Less than or equal to the initial specified value		
heat	plate, the capacitor listed at right when					ts	Leakage current				Less than or equal to the initial specified value		
Marking	Black print on the	Black print on the case top.											

■Chip Type

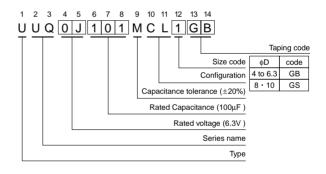
(\$4 to \$6.3)







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
Ĺ	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	2

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



Dimensions

	V	6.3	3	10	1	16	;	25		35		50	
Cap.(µF)	Code	0J		1A		10	;	1E		1V		1H	l
0.1	0R1											4×5.4	1.0
0.22	R22											4×5.4	2.6
0.33	R33				İ		!					4×5.4	3.2
0.47	R47						İ					4×5.4	3.8
1	010											4×5.4	6.2
2.2	2R2						1					4×5.4	11
3.3	3R3											4×5.4	14
4.7	4R7				1		!	4×5.4	13	4×5.4	15	5×5.4	19
10	100			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 $\phi 8 \times 6.2 L$ is available for capacitors marked. " \circ "

Size $\phi 8 \times 10 L$ is available for capacitors marked. " \bullet "

Size $\phi 10 \times 10 L$ is available for capacitors marked. " \triangle "

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

Rated Ripple (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.