ALUMINUM ELECTROLYTIC CAPACITORS



Chip Type, High Reliability. Low temperature ESR specification.







- Chip type, high temperature range, for +125°C use.
- ◆ Added ESR specification after the test at −40°C (φ6.3 sizes provide only for the first stage.)
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).
- AEC-Q200 compliant. Please contact us for details.





Specifications

Item	Performance Characteristics											
Category Temperature Range	-40 to +125°C											
Rated Voltage Range	10 to 50V											
Rated Capacitance Range	10 to 470μF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 1 minute's application of rated	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4(µA), whichever is greater.										
		Measurement frequency : 120Hz at 20°C										
Tangent of loss angle (tan δ)	Rated voltage (V) 10	16	25		3		50					
	tan δ (MAX.) 0.32	0.24	0.21		0.	18	0.18					
	Measurement frequency : 120Hz											
Stability at Low Temperature	Rated voltage (V)	10	16		25	35 50						
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	12		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 125°C. Capacitance change Within ±30% of the initial capacitance tan δ 300% or less than the initial specified tan δ Leakage current Less than or equal to the initial specified.											
Shelf Life	After storing the capacitors under no load at 125°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 requirements listed at right when they are removed from the plate and restored to 20°C.											
Marking	are removed from the plate and res Black print on the case top.	Stored to 20	0.				<u>'</u>	, , , , , , , , , , , , , , , , , , , ,				

⊕Positive

■Chip Type

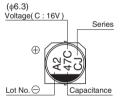
(φ8, φ10)

Trade mark

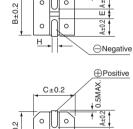
Lot No.⊖

Voltage(V : 35V

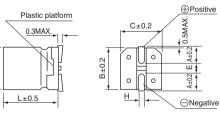
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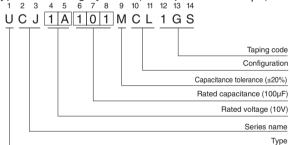




C±0.2



Type numbering system (Example : 10V 100 μ F) 1 2 3 4 5 6 7 8 9 10 11 12 13 14



			()
øD×L	6.3×8.7	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	8.7	10	10
Н	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

Voltage	9				
V	10	16	25	35	50
Code	Α	С	Е	V	Н

Dimensions

	V		10				16				25				35				50		
Cap.(µF)	Code		1A				1C				1E				1V				1H		
10	100				l I									6.3×8.7	14	-	95	6.3×8.7	14	-	95
22	220				i					6.3×8.7	14	-	95	6.3×8.7	14	-	95	6.3×8.7	14	-	95
33	330				l I		1			6.3×8.7	14	-	95	6.3×8.7	14	-	95	8×10	2.0	6.0	200
47	470				 	6.3 × 8.7	14	-	95	6.3×8.7	14	-	95	6.3×8.7	14	-	95	10×10	1.5	4.5	330
100	101	6.3 × 8.7	14	-	95	8×10	2.0	6.0	250	8×10	2.0	6.0	250	10×10	1.5	4.5	400	10×10	1.5	4.5	330
220	221	8 × 10	2.0	6.0	250	10 × 10	1.5	4.5	400	10×10	1.5	4.5	400	10×10	1.5	4.5	400	Case size		after	
330	331	10×10	1.5	4.5	400	10 × 10	1.5	4.5	400	10×10	1.5	4.5	400					ΨDXL	initial	test	Rated
470	471	10×10	1.5	4.5	400													(mm)	ES	SR	inhhic

Frequency coefficient of rated ripple current

- · · · · · · · · · · · · · · · · · · ·											
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. ESR (Ω) at -40°C 100kHz, Rated ripple current (mArms) at 125°C 100kHz

- 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.