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).





■Specifications

Item			Perf	orma	nce C	haracteris	tics				
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 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		35 50						
	tan δ (MAX.) 0.32	0.24	0.21		0.	18	0.18				
	Measurement frequency : 120Hz										
Stability at Law Tamparatura	Rated voltage (V)	10	16		25 35 50		50				
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	C 12	8		6	4	_				
Endurance	The specifications listed at right she capacitors are restored to 20°C aff applied for 2000 hours at 125°C.	Within ±30% of the initial capacitance value 300% or less than the initial specified value Less than or equal to the initial specified value									
Shelf Life	After storing the capacitors under clause 4.1 at 20°C, they shall mee							ng voltage treatment based on JIS C 5101-4 stics listed above.			
Resistance to soldering	Which is maintained at 250°C. The canacitors shall meet							Within ±10% of the initial capacitance value Less than or equal to the initial specified value			
heat	are removed from the plate and re				Leal	kage curre	ent	Less than or equal to the initial specified value			
Marking	Black print on the case top.										

⊕Positive

■Chip Type

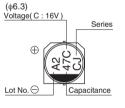
(φ8, φ10)

Trade mark

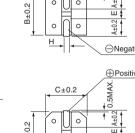
Lot No.⊖

Voltage(V : 35V

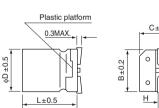
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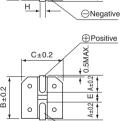




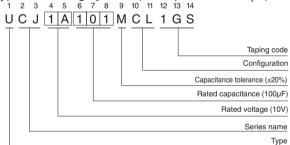


C±0.2





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				i	6.3×8.7	14	-	95	6.3×8.7	14	-	95	6.3×8.7	14	- 1	95
33	330				l				i I	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	l Installation	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	i initiai !	test	Rated ripple
470	471	10×10	1.5	4.5	400												i	(mm)	E	SR	lippic

○Negative

Frequency coefficient of rated ripple current

a reduced a remaining a reliable and a remaining											
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.