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).

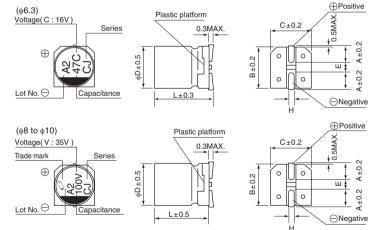




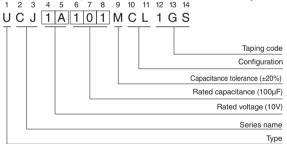
■ Specifications

Item				Porfe	rmo	noo Ch	norootorio	tion				
	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 voltage, leakage current is not more than 0.03CV or 4(µA), whichever is greater.											
				Measur	emer	nt frequ	uency : 12	OHz at 20	°C			
Tangent of loss angle (tan δ)	Rated voltage (V)	16	25		35		50					
	tan δ (MAX.)	0.32	0.24	0.21		0.1	18	0.18				
	Measurement frequency : 120Hz											
Stability at Low Temperature	Rated voltage	10	16	25		35	50					
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	12	8		6	4	4					
Endurance	The specifications liste capacitors are restored applied for 2000 hours	to 20°C afte				tan a	acitance o	Ŭ	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 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 kep which is maintained at the characteristic requi	capacitors s	hall meet	Capacitance change tan δ			Within ±10% of the initial capacitance value Less than or equal to the initial specified value					
	are removed from the					Leal	kage curre	ent	Less than or equal to the initial specified value			
Marking	Black print on the case	top.										

■Chip Type



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



			(mm)
φD×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
Е	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

Rated Voltage										
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													6.3×8.7	14	-	95	6.3 × 8.7	14	-	95
22	220									6.3×8.7	14	-	95	6.3×8.7	14	-	95	6.3×8.7	14	-	95
33	330		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	 	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 iriillai I	tenuurance test	ripple
470	471	10×10	1.5	4.5	400										i			(mm)	ES	SR	, ippic

Frequency coefficient of rated ripple current

-	- 1 7			1. 1		
	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.