ALUMINUM ELECTROLYTIC CAPACITORS Chip Type, High Reliability. Ø Low temperature ESR specification.

UCJ

For SMD

Long Life

Anti-Solvent Feature

Added ESR specification UUB

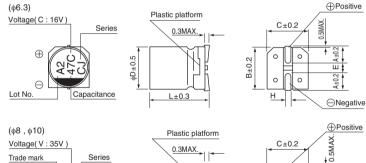
- Chip type, high temperature range, for +125°C use.
- Added ESR specification after the test at -40°C
- (ϕ 6.3 sizes provide only for the first stage.)
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

UCZ Low ESR Long Life

- 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 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		0.1	18	0.18				
	Measurement frequency : 120Hz										
Stability at Low Temperature	Rated voltage (V)	10	16 2		25 35 5		50				
Stability at Low Temperature	Impedance ratioZT / Z20 (MAX.)	12	8		6	4	4				
Endurance	The specifications listed at right shall I capacitors are restored to 20°C after t applied for 2000 hours at 125°C.				tan	acitance c 8 kage curre		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 lo clause 4.1 at 20°C, they shall meet the							ng voltage treatment based on JIS C 5101-4 stics listed above.			
Resistance to soldering heat	The capacitors are kept on a hot plate which is maintained at 250°C. The cap the characteristic requirements listed are removed from the plate and restor	hall meet hen they		tan	acitance c 8 kage curre		Within ±10% of the initial capacitance value Less than or equal to the initial specified value Less than or equal to the initial specified value				
Marking	Black print on the case top.										

Chip Type



L±0.5



		(mm)
6.3×8.7	8×10	10 × 10
2.4	2.9	3.2
6.6	8.3	10.3
6.6	8.3	10.3
2.2	3.1	4.5
8.7	10	10
0.5 to 0.8	0.8 to 1.1	0.8 to 1.1
	2.4 6.6 6.6 2.2 8.7	2.4 2.9 6.6 8.3 6.6 8.3 2.2 3.1

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

Taping code

Configuration

Series name

Туре

Capacitance tolerance (±20%)

Rated capacitance (100µF)

Rated voltage (10V)

Dimensions

 \oplus

Θ Lot No.

	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								i	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	Initial	after	
330	331	10 × 10	1.5	4.5	400	10 × 10	1.5	4.5	400	10×10	1.5	4.5	400					φD×L	Initial	test	Rated ripple
470	471	10×10	1.5	4.5	400				1								1	(mm)	ES		Tippic

162

Frequency coefficient of rated ripple current

±0.5

ä

Capacitance

1 2					
Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

• 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.

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

CAT.81001

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

UCJIAI01MCL1GS

