

# ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

**ZE** series 3.95mmL MAX. Chip Type, Bi-polarized



For SMD



Smaller

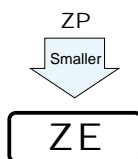


Bi-polarized



Anti-Solvent Feature

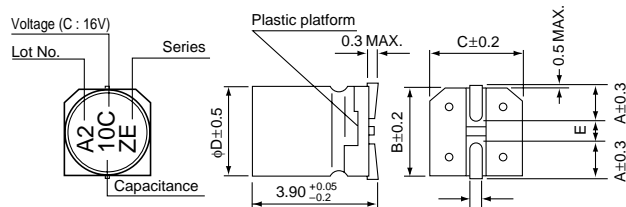
- Chip type with 3.95mmL MAX. height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



## Specifications

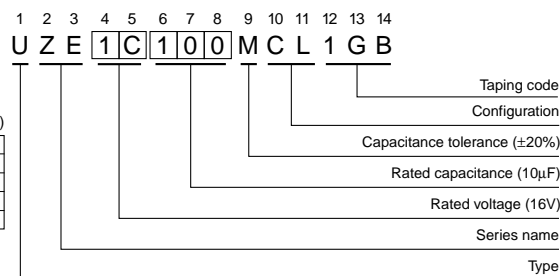
Item	Performance Characteristics						
Category Temperature Range	-40 to +85°C						
Rated Voltage Range	6.3 to 50V						
Rated Capacitance Range	0.1 to 47μF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.05 CV or 10 (μA) , whichever is greater.						
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C						
	Rated voltage (V)	6.3	10	16	25	35	50
	tan δ (MAX.)	0.30	0.24	0.20	0.18	0.16	0.16
Stability at Low Temperature	Measurement frequency : 120Hz						
	Rated voltage (V)	6.3	10	16	25	35	50
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C Z-40°C / Z+20°C	4 8	3 8	2 4	2 4	2 3
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 85°C with the polarity inverted every 250 hours.			Capacitance change		Within ±30% of the initial capacitance value	
				tan δ		300% or less than the initial specified value	
				Leakage current		Less than or equal to the initial specified value	
Shelf Life	After storing the capacitors under no load at 85°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.			Capacitance change		Within ±10% of the initial capacitance value	
				tan δ		Less than or equal to the initial specified value	
				Leakage current		Less than or equal to the initial specified value	
Marking	Black print on the case top.						

## Chip Type



Voltage	6.3	10	16	25	35	50
V	6.3	10	16	25	35	50
Code	j	A	C	E	V	H

## Type numbering system (Example : 16V 10μF)



## Dimensions

V	6.3	10	16	25	35	50
Cap. (μF)	0J	1A	1C	1E	1V	1H
0.1	0R1					4 1.0
0.22	R22					4 2.0
0.33	R33					4 2.8
0.47	R47					4 4.0
1	010					4 8.4
2.2	2R2				4 8.4	5 13
3.3	3R3			5 12	5 16	5 17
4.7	4R7		4 12	5 16	5 18	6.3 20
10	100	4 17	5 23	6.3 27	6.3 29	
22	220	5 28	6.3 33	6.3 37		
33	330	6.3 37	6.3 41	6.3 49		
47	470	6.3 45				

Rated ripple current (mA rms) at 85°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.

CAT.8100C