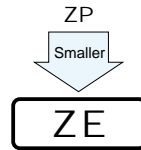


# ALUMINUM ELECTROLYTIC CAPACITORS

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



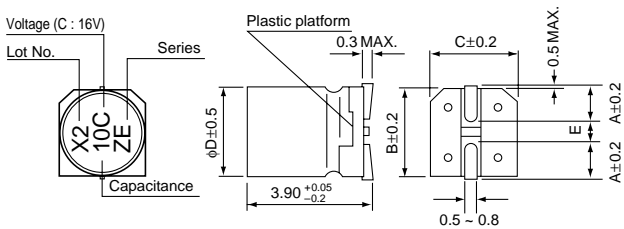
- Chip type with 3.95mmL MAX, height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).



## Specifications

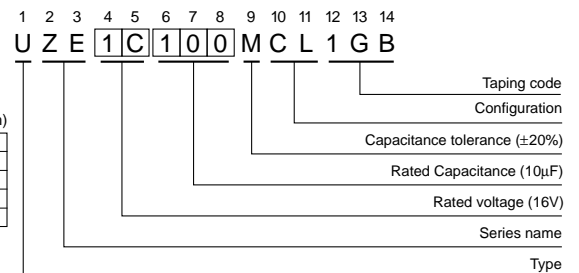
Item	Performance Characteristics						
Category Temperature Range	-40 ~ +85°C						
Rated Voltage Range	6.3 ~ 50V						
Rated Capacitance Range	0.1 ~ 47μF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.05 CV or 10 (μA), whichever is greater.						
tan δ	Measurement frequency : 120Hz, Temperature : 20°C						
	Rated voltage (V)	6.3	10	16	25	35	50
Stability at Low Temperature	Measurement frequency : 120Hz						
	Rated voltage (V)	6.3	10	16	25	35	50
Eudurance	After 1000 hours' application of rated voltage at 85°C with the polarity inverted every 250 hours, capacitors meet the characteristic requirements listed at right.		Capacitance change				Within ±30% of initial value
			tan δ				300% or less of initial specified value
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.		Leakage current				Initial specified value or less
			Capacitance change				Within ±10% of initial value
Resistance to soldering heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.		tan δ				Initial specified value or less
			Leakage current				Initial specified value or less
Marking	Black print on the case top.						

## Chip Type



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

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



## Dimensions

Cap. (μF)	Code	6.3		10		16		25		35		50	
		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 (mArms) at 85°C 120Hz

## Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz~
Coefficient	0.70	1.00	1.17	1.36	1.50

- Taping specifications are given in page 24.
- Recommended land size are given in page 25.
- Please contact us for the soldering by reflow.
- Please refer to page 3 for the minimum order quantity.