

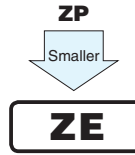
ALUMINUM ELECTROLYTIC CAPACITORS

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 fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).

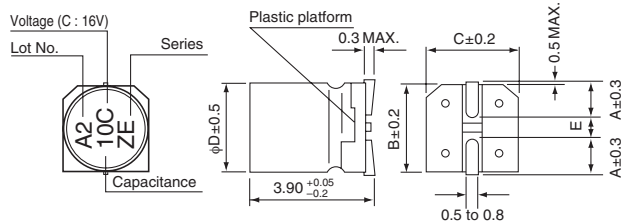
Products which are scheduled to be discontinued.
Not recommended for new designs



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	4	3	2	2	2	2
		Z-40°C / Z+20°C	8	8	4	4	3	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						
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.							
	Capacitance change	Within ±10% of the initial capacitance value						
	tan δ	Less than or equal to the initial specified value						
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						
Marking	Black print on the case top.							
	Leakage current	Less than or equal to the initial specified value						

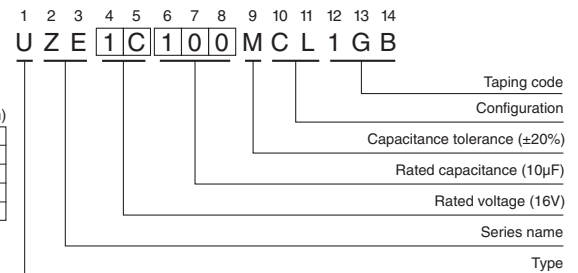
Chip Type



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

(mm)	φD	4	5	6.3
A	1.8	2.1	2.4	
B	4.3	5.3	6.6	
C	4.3	5.3	6.6	
E	1.0	1.3	2.2	

Type numbering system (Example : 16V 10μF)



Dimensions

Cap. (μF)	Code	V		6.3		10		16		25		35		50	
		Code	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 (mArms) 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.

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