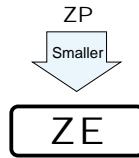


ALUMINUM ELECTROLYTIC CAPACITORS

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



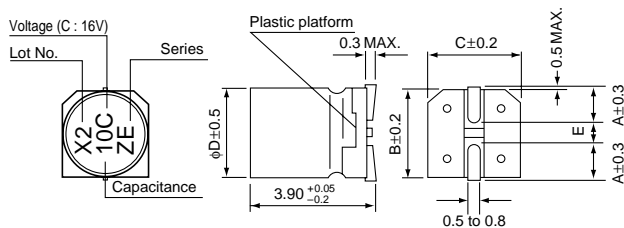
- Chip type with 3.95mmL MAX, height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).



Specifications

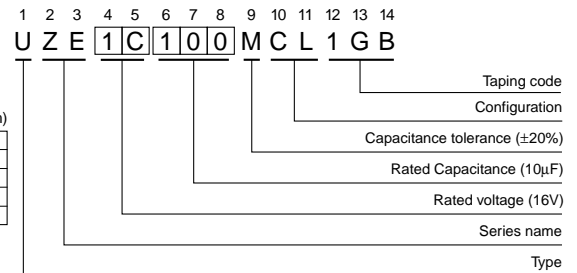
Item	Performance Characteristics							
Category Temperature Range	-40 to +85°C							
Rated Voltage Range	6.3 to 50V							
Rated Capacitance Range	0.1 to 47μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.05 CV or 10 (μA) , whichever is greater.							
tan δ	Measurement frequency : 120Hz, Temperature : 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 Z-25°C / Z+20°C	4	3	2	2	2	2	
	ZT / Z20 (MAX.) Z-40°C / Z+20°C	8	8	4	4	3	3	
Endurance	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
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.		Capacitance change					Within ±10% of initial value
			tan δ					Initial specified value or less
Marking			Leakage current					Initial specified value or less

Chip Type



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

Type numbering system (Example : 16V 10μF)



Dimensions

Cap. (μF)	Code	V		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	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 (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 are given in page 18.
- Please contact us for the soldering by reflow.
- Please refer to page 3 for the minimum order quantity.