ALUMINUM ELECTROLYTIC CAPACITORS







• 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 (2002/95/EC).

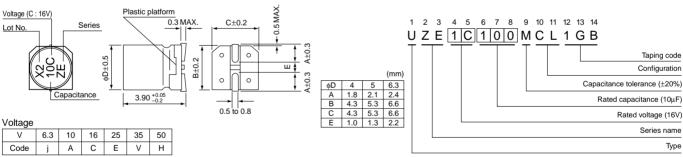




Specifications

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.												
	Measurement frequency : 120Hz, Temperature : 20°C												
Tangent of loss angle (tan δ)	Rated voltage (V)		6.3		10	1	6	25	35		50		
	tan δ (MAX.)		0.30		0.24	0.	20	0.18	0.16	6	0.16		
	Measurement frequency : 120Hz												
	Rated voltage (V)			6.3	10)	16	25	:	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C / Z-	+20°C	4	3		2	2		2	2		
	ZT / Z20 (MAX.)	ZT / Z20 (MAX.) Z-40°C / Z-		8	8		4	4		3	3		
	The specifications listed at right shall be met when Capacitation							citance change Within ±30% of			hin ±30% c	of the initial capacitance value	
Endurance	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. $tan \delta$						300% or less t				than the initial specified value		
							ge current Less than or e			ss than or e	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 US C 5101-4												
Resistance to soldering	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	1 0 1			han or equal to the initial specified value	
heat								Leakag				than or equal to the initial specified value	
Marking	Black print on the case top.												

Chip Type



Dimensions

Frequency

Coefficient

• Frequency coefficient of rated ripple current

120 Hz

1.00

300 Hz

1.17

1 kHz

1.36

10 kHz or more

1.50

50 Hz

0.70

V		6.3		10		16		2	5	35		50		
Cap. (µF)	Code	0	0J		1A		1C		1E		1V		1H	
0.1	0R1											4	1.0	
0.22	R22				1		1				i	4	2.0	
0.33	R33											4	2.8	
0.47	R47						l					4	4.0	
1	010											4	8.4	
2.2	2R2									4	8.4	5	13	
3.3	3R3				1			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		 						 	Case size	Rated ripple	

Rated ripple current (mArms) at 85°C 120Hz

Taping specifications are given in page 23.

• R	ecommended	land	size	soldering	by	reflow	are	given
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in page 18,19.

Type numbering system (Example : 16V 10µF)

Please refer to page 3 for the minimum order quantity.

