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 (2002/95/EC).

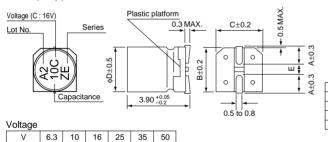




Specifications

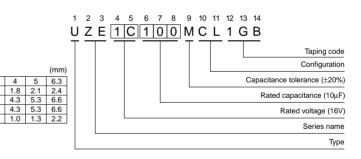
Item	Performance Characteristics												
Category Temperature Range	-40 to +85°C												
Rated Voltage Range	6.3 to 50V												
Rated Capacitance Range	0.1 to 47μF												
Capacitance Tolerance	±20% at 120Hz, 20°C												
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.05 CV or 10 (µA) , whichever is greater.												
	Measurement frequency : 120Hz at 20℃												
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	6.3 10		16		25	35		50			
	tan δ (MAX.)	0.30	0.24		0.20		0.18	0.16	;	0.16			
	Measurement frequency: 120Hz												
Q. 1.177	Rated voltage (V)	(3.3	10		16	25	3	35	50			
Stability at Low Temperature	Impedance ratio Z-25° C / Z-		4	3		2	2		2	2			
	ZT / Z20 (MAX.) Z-40° C / Z-	+20°C	8	8		4	4		3	3			
	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						citance change Within ±30%			in ±30% o	f the initial capacitance value		
Endurance							300% or less that				han the initial specified value		
	polarity inverted every 250 hou	tne	I	e current Less than or equal to the initial				qual 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.												
	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					
Resistance to soldering								tan δ Less than or equal to the initial specified value					
heat								Leakage current Less than or equal to the initial specified value					
Marking	Black print on the case top.												

■Chip Type



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Type numbering system (Example : $16V 10\mu F$)



Dimensions

C E

Code

	V	6.	.3	1	0	1	16	2	25	3	5	5	0	
Cap. (µF) Code		0	0J		1A		1C		1E		1V		1H	
0.1	0R1				l I						l I	4	1.0	
0.22	R22				i		İ		i		i	4	2.0	
0.33	R33				 							4	2.8	
0.47	R47				i i		İ		i		i	4	4.0	
1	010				 							4	8.4	
2.2	2R2				İ		İ			4	8.4	5	13	
3.3	3R3				! !		!	5	12	5	16	5	17	
4.7	4R7				i	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		i		i			
33	330	6.3	37	6.3	41	6.3	49		ļ					
47	470	6.3	45		l				İ		i I	Case size	Rated ripple	

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
Ī	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.