ALUMINUM ELECTROLYTIC CAPACITORS

4.5mmL Chip Type, Bi-Polarized series



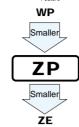






• Chip type with 4.5mm height.

- 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).



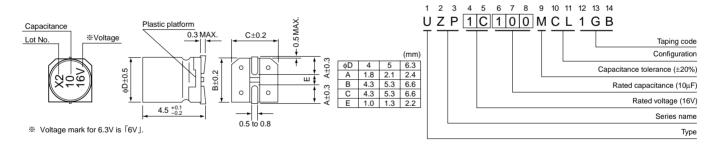


■Specifications

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	_	25	35		50		
	tan δ (MAX.)	0.30	0.24	0.2	20	0.18	0.16	5	0.16		
0.1111	Measurement frequency : 120Hz										
	Rated voltage (V)	6	i.3 <i>'</i>	0	16	25	- (35	50		
Stability at Low Temperature	Impedance ratio Z-25°C / Z-			3	2	2	_	2	2		
	ZT / Z20 (MAX.) Z-40°C / Z+	+20°C	8	3	4	4		3	3		
	The specifications listed at righ		Capa	citance change Within ±20% o			n ±20% o	f the initial capacitance value			
Endurance	the capacitors are restored to 20°C after the rated							300%	or less t	han the initial specified value	
	voltage is applied for 2000 hou polarity inverted every 250 hou		with the		Leaka	ige curren	ıt	Less	iture: 20°C 50 0.16 ncy: 120Hz 50 2 3 ithin ±20% of the initial capacitance value 10% or less than the initial specified value 10s voltage treatment based on JIS C 51 1istics listed above. ge Within ±10% of the initial capacitance	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 IIS C 5101.4										
	The capacitors are kept on a h		Capacitance change Within			Within -	+10% of the initial capacitance value				
Resistance to soldering	maintained at 250°C. The capa						Less than or equal to the initial specified value				
heat	characteristic requirements list removed from the plate and re			y are							
Marking	Black print on the case top.									·	

■Chip Type

Type numbering system (Example : 16V 10µF)



■Dimensions

	V	6.	.3	1	0	1	6	2	5	3	5	5	0
Cap. (µF)	Code	0	J	1	A	1	С	1	E	1	V	1	Н
0.1	0R1											4	1.0
0.22	R22				i i							4	2.0
0.33	R33											4	2.8
0.47	R47				İ		i				i I	4	4.0
1	010											4	8.4
2.2	2R2				i I					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		i I							Case size	Rated ripple

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

Frequency coefficient of rated ripple current

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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 select WP(p.69), UN(p.104) series if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity.

CAT.8100Y