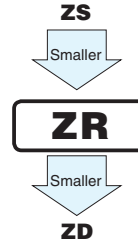


ALUMINUM ELECTROLYTIC CAPACITORS

ZR series 3.95mmL MAX. Chip Type



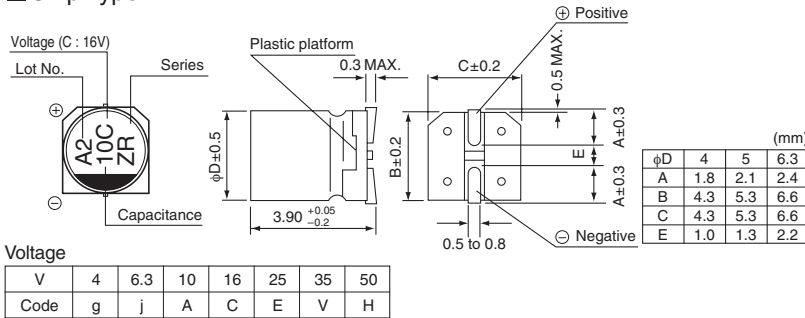
- Chip type with 3.95mmLMAX height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



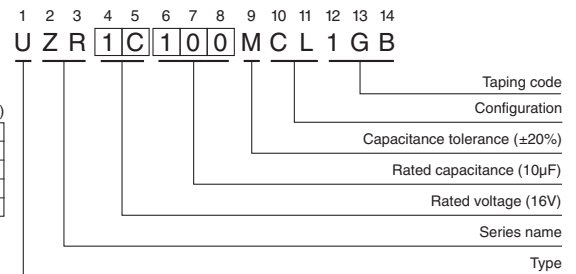
Specifications

Item	Performance Characteristics									
Category Temperature Range	-40 to +85°C									
Rated Voltage Range	4 to 50V									
Rated Capacitance Range	0.1 to 220μF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (μA), whichever is greater.									
Tangent of loss angle (tan δ)	Rated voltage (V)	4	6.3	10	16	25	35	50	120Hz 20°C	
	tan δ (MAX.)	0.50	0.30	0.24	0.19	0.16	0.14	0.14		
Stability at Low Temperature	Rated voltage (V)	4	6.3	10	16	25	35	50	120Hz	
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	7	4	3	2	2	2		2
		Z-40°C / Z+20°C	15	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.									
									Capacitance change	Within ±30% of the initial capacitance 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.									
									tan δ	300% or less than 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.									
									Leakage current	Less than or equal to the initial specified value
Marking	Black print on the case top.									

Chip Type



Type numbering system (Example : 16V 10μF)



Dimensions

Cap. (μF)	Code	V										
		4	6.3	10	16	25	35	50				
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	13			
3.3	3R3							4	17			
4.7	4R7							4	20			
10	100				4	23	5	27	5	29	6.3	33
22	220		4	28	5	33	5	37	6.3	42	6.3	46
33	330	4	28	5	37	5	41	6.3	49	6.3	52	
47	470	4	33	5	45	6.3	52	6.3	58			
100	101	5	56	6.3	70							
220	221	6.3	96									

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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