# ALUMINUM ELECTROLYTIC CAPACITORS

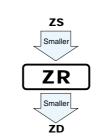




3.95mmL MAX. Chip Type



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



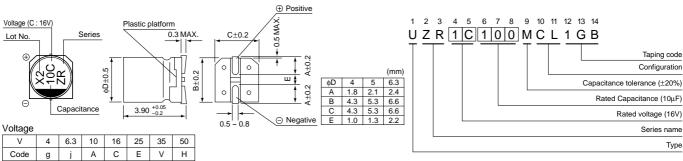


Type numbering system (Example :  $16V \ 10\mu F$ )

#### Specifications

Item	Performance Characteristics											
Category Temperature Range	-40 ~ +85°C											
Rated Voltage Range	4 ~ 50V											
Rated Capacitance Range	0.1 ~ 220µF											
Capacitance Tolerance	±20% at 120Hz	z, 20°C										
Leakage Current	After 2 minutes	application of ra	ated voltage	, leakage cu	urrent is no	t more than 0.	01 CV or	3 (µA) , whic	hever is great	er.		
1	Rated voltage(V) tan δ (MAX.)		4	6.3	10	16	25	35	50	120Hz 20°C		
tan δ			0.50	0.30	0.24	0.19	0.16	0.14	0.14			
	Rated voltage (V)		4	6.3	10	16	25	35	50	120Hz		
Stability at Low	Impedance ratio	Z-25°C / Z+20°C	7	4	3	2	2	2	2			
Temperature ZT / Z20 (N	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	15	8	8	4	4	3	3			
	Attack 4000 hours and initial value											
Endurance	meet the characteristic requirements listed at right								s of initial specified value			
	Leakage current Initial specified value or less											
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.											
Resistance to soldering heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 Capacitance change Within ±10% of initial va											
	seconds. After removing from the hot plate and restored at room temperature, $\tan \delta$ Initial specified value of											
soldoning node	they meet the characteristic requirements listed at right. Leakage current Initial s								Initial specifi	al specified value or less		
Marking	Black print on the case top.											

## Chip Type



#### Dimensions

	V		4	6	.3	1	0	1	6	2	25	3	85	5	0
Cap. (µF)	Code	0	G	C	IJ	1	A	1	С	1	E	1	V	1	Н
0.1	0R1						1							4	1.0
0.22	R22		1		i		i I		1					4	2.0
0.33	R33		1				1		1					4	2.8
0.47	R47						I I							4	4.0
1	010		ļ		1		i I		ļ				1	4	8.4
2.2	2R2						1		1		1		1	4	13
3.3	3R3		l		i I		i I		1		İ		İ	4	17
4.7	4R7						1			4	16	4	18	5	20
10	100						1	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				1
47	470	4	33	5	45	6.3	52	6.3	58						
100	101	5	56	6.3	70		l								
220	221	6.3	96											Case size	Rated ripple

## • Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz~
Coefficient	0.70	1.00	1.17	1.36	1.50

- Taping specifications are given in page 24.
- Recommended land size are given in page 25.
- Please contact us for the soldering by reflow.
- Please refer to page 3 for the minimum order quantity.

