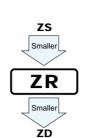
# **ALUMINUM ELECTROLYTIC CAPACITORS**

# nichicon





- 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).



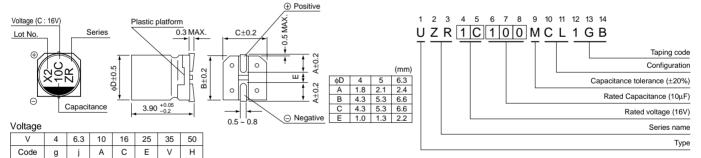


### Specifications

Item	Performance Characteristics											
Category Temperature Range	-40 ~ +85°C											
Rated Voltage Range	4 ~ 50V	~ 50V										
Rated Capacitance Range	0.1 ~ 220µF	ι ~ 220μF										
Capacitance Tolerance	±20% at 120Hz	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.											
	Rated voltage(V)		4	6.3	10	16	25	35	50	120Hz 20°C		
tan δ	tan δ (MAX.)		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 Temperature	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	7	4	3	2	2	2	2			
remperature		Z-40°C / Z+20°C	15	8	8	4	4	3	3			
	Capacitance change Within ±30% of initial value											
Endurance	After 1000 hours' application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right. $\frac{\tan \delta}{\cos \theta} = \frac{300\% \text{ or less of initial specified value}}{\cos \theta}$											
	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 val									of initial value		
	seconds. After	seconds. After removing from the hot plate and restored at room temperature, tan δ Initial specified value or less										
solutioning nout	they meet the c	they meet the characteristic requirements listed at right. Leakage current Initial specified value or less										
Marking	Black print on th	he case top.										

### Chip Type

## Type numbering system (Example : 16V 10µF)



#### Dimensions

	V		4	6	.3	1	0	1	6	2	5	:	35	5	50
Cap. (µF)	Code	0	G	C	)J	1	A	1	С	1	E	1	١V	1	Н
0.1	0R1													4	1.0
0.22	R22		1						Ì					4	2.0
0.33	R33		1				1						1	4	2.8
0.47	R47								İ					4	4.0
1	010		ļ				ļ						1	4	8.4
2.2	2R2													4	13
3.3	3R3						i I		Ì					4	17
4.7	4R7									4	16	4	18	5	20
10	100							4	23	5	27	5	29	6.3	33
22	220		1	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						1
100	101	5	56	6.3	70		1						1		1
220	221	6.3	96						1					Case size ¢ D (mm)	Rated

### • 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.

