# ALUMINUM ELECTROLYTIC CAPACITORS

## nichicon



- Compliant to the RoHS directive (2011/65/EU).

UZT High Temperature UZS Smaller UZR



Values marked with an % in the dimension table are scheduled to be discontinued and are not recommended for new designs.

### 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.													
									t frequency : 120			2		
Tangent of loss angle (tan $\delta)$	Rated voltage (V)		4		6.3		10	16	25		35	50	-	
	tan δ (MAX.)		0.5	0	0.30		.24	0.19	0.16	6	0.14	0.14		
	Measurement frequency : 120Hz													
	Rated voltage (V)			4	4 6.3		10	16	2	25	35	50	]	
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+	-20°C	7	4		3	2		2	2	2		
	ZT / Z20 (MAX.)	Z-40°C / Z-	-20°C	15	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 tan δ							citance ch	itance change Within ±20% of the initial capacitance value					alue
Endurance									200% or less than the initial specified value					lue
	voltage is applied for 2000 hours at 85°C. Leakage current Less than or equal to the initial specified value									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.													
Resistance to soldering	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the							Capacitance change			Within ±10% of the initial capacitance value			
								tan δ	tan δ		Less than or equal to the initial specified value			
heat	characteristic requirements listed at right when they are removed from the plate and restored to 20°C.									ecified value				
Marking	Black print on the case top.													

## Chip Type



## Dimensions

V 4		4	6.3		10		16		25		35		50		
Сар. (µF)	Code	0	G	OJ		1A		1C		1E		1V		1H	
0.1	0R1		1		1				1					<b>※4</b>	1.0
0.22	R22													*4	2.0
0.33	R33		1		1				1		1		1	<b>※4</b>	2.8
0.47	R47		1		1				1		1		1	<u>*4</u>	4.0
1	010				1									4	8.4
2.2	2R2		1		1				1		1		1	4	13
3.3	3R3		1		1						1		1	4	17
4.7	4R7		1		1					4	16	4	18	5	20
10	100		1		i I			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						1		1		
220	221	6.3	96		1						1			Case size	Rated ripple

• Taping specifications are given in page 23.

- · Recommended land size, soldering by reflow are given
- in page 18, 19.
- Please select UUR(p.150), UUG(p.156) if high C/V products are reqired.

#### Please refer to page 3 for the minimum order quantity.

#### 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

