# ALUMINUM ELECTROLYTIC CAPACITORS

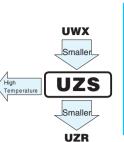
## nichicon



Туре



- 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 (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



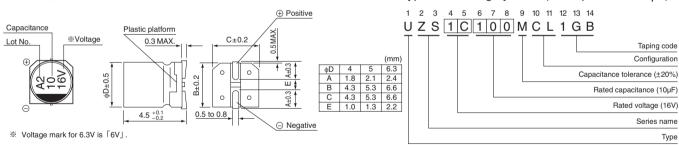


#### Specifications

Item	Performance Characteristics													
Category Temperature Range	-40 to + 85°C													
Rated Voltage Range	4 to 50V													
Rated Capacitance Range	1 to 220µF													
Capacitance Tolerance	+20% at 120Hz, 20°C													
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01 CV or 3 (µA) ,whichever is greater.													
Tangent of loss angle (tan $\delta$ )	Measurement frequency : 120Hz at 20°C													
	Rated voltage (V)	4		6.3	1	0	16	25		35	50			
	tan δ (MAX.)	0.50	) (	0.30	0.2	24	0.19	0.16	6 C	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 ô							itance change Within ±20% of the initial capacitance value						
Endurance									200%	itial specified value				
	voltage is applied for 2000 hours at 85°C.									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 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 heat	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			Less than or equal to the initial specified value			
	characteristic requirements removed from the plate an	are	Leakage current			Less than or equal to the initial specified value								
Marking	Black print on the case top													

UZT

### Chip Type



#### Dimensions

V 4		4	6.3		10		16		25		35		50		
Cap. (µF)	Code	0	G	OJ		1A		1C		1E		1V		1H	
1	010		1		1		1		1				1	4	8.4
2.2	2R2								1					4	13
3.3	3R3		1		1		1		1		1		l I	4	17
4.7	4R7		1		1		1		1	4	16	4	18	5	20
10	100		i I					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				
47	470	4	33	5	45	6.3	52	6.3	58				l I		
100	101	5	56	6.3	70		1		1		1		1		
220	221	6.3	96				1		1				1	Case size ¢ D (mm)	Rated ripple

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

• Taping specifications are given in page 23.

Type numbering system (Example : 16V 10µF)

- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UUR(p.168), UUG(p.174) if high C/V
- products are reqired.
- Please refer to page 3 for the minimum order quantity.

#### • 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