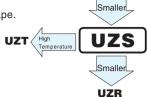
# **ALUMINUM ELECTROLYTIC CAPACITORS**

**UZS** 

4.5mmL Chip Type



- 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).



uwx

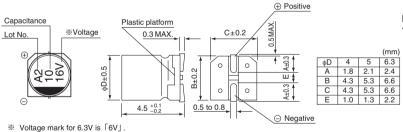
Anti-Solvent Feature



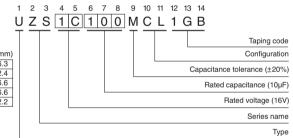
### ■Specifications

Item	Performance Characteristics														
Category Temperature Range	Range -40 to +85°C														
Rated Voltage Range	4 to 50V 1 to 220μF														
Rated Capacitance Range															
Capacitance Tolerance	+20% at 120Hz, 20°C														
Leakage Current	After 2 minutes' a	oplication of	rated vo	ltage a	t 20°C,	leakage	e curi	rent is no	t mor	e than (	0.01 CV	or 3 (µA)	,whichever	is greater.	
							Measurement frequency: 120Hz at 20°C								
Tangent of loss angle (tan δ)	Rated voltage (V)		4	6.3		10		16	25		35	50			
	tan δ (MAX.)		0.50	0	0.30	0.24		0.19	0.16		0.14	0.14			
	Measurement frequency : 120Hz														
O. 1.33	Rated voltage (V)			4	6.3	1	0	16	2	25	35	50			
Stability at Low Temperature	Impedance ratio	Z-25°C / Z-	+20°C	7	4	3	3	2		2	2	2			
	ZT / Z20 (MAX.)	Z-40°C / Z-	+20°C	15	8	8	3	4		4	3	3			
	The specifications listed at right shall be met when								itance change Within ±20% of the initial capacitance value				value	$\neg$	
Endurance	the capacitors are restored to 20°C after the rated $\tan \delta$						nδ	200% or less than the initial speci				itial specified	value		
	voltage is applied for 2000 hours at 85°C.  Leakage current  Less than or equal to the 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.														
	The capacitors are kept on a hot plate for 30 seconds, which is							Capacitance change			Within	+10% of th	ne initial capa	citance value	$\neg$
Resistance to soldering	maintained at 250°C. The capacitors shall meet the						ŀ	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.							Leakage current			Less than or equal to the initial specified value				
Marking	ing Black print on the case top.														

### ■Chip Type



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



### ■ Dimensions

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

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 select UUR(p.154), UUG(p.160) if high C/V products are regired.
- Please refer to page 3 for the minimum order quantity.