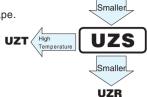
ALUMINUM ELECTROLYTIC CAPACITORS

UZS

4.5mmL Chip Type



- For SMD Smaller Anti-Solvent Feature
- 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).



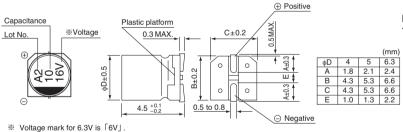
uwx



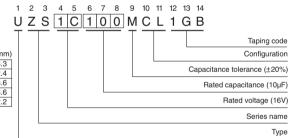
■Specifications

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.													
							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	C	0.30	0.2	4	0.19	0.16		0.14	0.14		
	Measurement frequency: 120Hz													
O. 133	Rated voltage (V)			4	6.3	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							itance change Within ±20% of the initial capacitance value				/alue		
Endurance	the capacitors are restored to 20°C after the rated						tan δ	200% or less than the initial specifi				itial specified v	alue	
21144141100									ge current Less than or equal to the initial specified value				d 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 maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.							Capacitance change \			Within	Within ±10% of the initial capacitance value		
Resistance to soldering								tan δ			Less than or equal to the initial specified value			
heat								Leakage	Leakage current Less than or equal to the initial spe			pecified value		
Marking	Black print on the case top.													

■Chip Type



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



■ Dimensions

	V	4	1	6	.3	1	0	1	6	2	:5	3	5	5	0
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		I I		1		l I		i i	4	17
4.7	4R7				1					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		
100	101	5	56	6.3	70		!		!		! !		!		
220	221	6.3	96		İ		i				1			Case size φ D (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	ı	
Coefficient	0.70	1.00	1.17	1.36	1.50	1	

- 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.