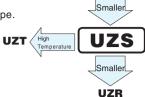
ALUMINUM ELECTROLYTIC CAPACITORS

4.5mmL Chip Type





- Anti-Solvent
- 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).
- AEC-Q200 compliant. Please contact us for details.



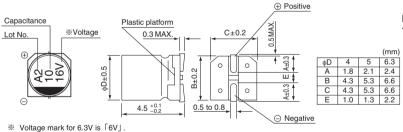
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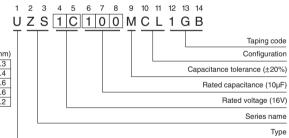
■Specifications

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	4 6.3		10		16	25	35	50			
	tan δ (MAX.)	0.50	0.30		0.24		0.19	0.16	0.14	0.14			
	Measurement frequency: 120Hz												
Ctability at Law Tagas and was	Rated voltage (V)		4	6.3		10	16	2	5 35	50			
Stability at Low Temperature	Impedance ratio Z-25°C / Z		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							ange	Within ±20%	20% of the initial capacitance value			
Endurance										than the initial specified value			
	voltage is applied for 2000 hours at 85°C. Leakage current Less than or equal to the initial specified value										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 Capacitance change Within ±10% of the initial capacitance value.										ne initial canacitance value		
	maintained at 250°C. The capacitors shall meet the										s than or equal to the initial specified value		
	characteristic requirements lis removed from the plate and re	n they a	are		Leakage current Less than or equal to the initial specific								
Marking	Black print on the case top.												

■Chip Type



Type numbering system (Example: 16V 10µF)



Dimensions

	V	4	1	6	.3	1	0	1	16	2	:5	3	5	5	0
Cap. (µF)	Code	0	G	0	IJ	1	A	1	С	1	E	1	V	1	Н
1	010				! !						 			4	8.4
2.2	2R2		i		i		i		İ					4	13
3.3	3R3		 		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		i i		1			Case size \$\phi 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				
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.156), UUG(p.162) if high C/V products are regired.
- Please refer to page 3 for the minimum order quantity.