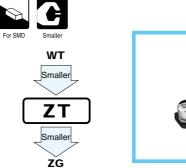
# ALUMINUM ELECTROLYTIC CAPACITORS





4.5mmL Chip Type, Wide Temperature Range

- Chip type with 4.5mm height, operating over wide temperature range of  $-40 \sim +105^{\circ}$ C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).





### Specifications

Item	Performance Characteristics													
Category Temperature Range	-40 ~ +105°C													
Rated Voltage Range	6.3 ~ 50V													
Rated Capacitance Range	0.1 ~ 100µF													
Capacitance Tolerance	±20% at 120Hz, 20°C													
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.													
	Measurement frequency : 120Hz, Temperature : 20°C													
tan δ	Rated voltage (V) 6.3 10			16	25		35		50					
	tan δ (MAX.)	0.38	0.32		0.20	0.	16	0.1	4	0.14				
	Measurement frequency : 120Hz													
Stability at Law Temperature			6.3	10	16		25	35	50	]				
Stability at Low Temperature	Impedance ratio	Z–25°C / 2		6	5	-	3	3	3	3				
	ZT / Z20 (MAX.)	Z–40°C / 2	Z+20°C	10	10		6	6	4	4	]			
	After 1000 hours' ap	ae	Capacitance Within ±25% of initial value (16V or less)											
Endurance	at 105°C, capacitor		change Within ±20% of initial value (25V or more)											
	requirements listed	F	tan δ 300% or less of initial specified value Leakage current Initial specified value or less						alue	-				
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.													
Resistance to soldering heat	The capacitors shall be kept on the hot plate maintained at 250°C Capacitance change Within ±10% of initial value													
	for 30 seconds. After removing from the hot plate and restored $\tan \delta$									$\neg$				
	at room temperature, they meet the characteristic requirements listed at right.													
Marking	Black print on the	case top.												

## Chip Type

105°C Marking	Positive	
Capacitance Plastic platform	MAX.	
Lot No. XVoltage 0.3 MAX.	C±0.2	
	•	(mm)
		● 4 5 6.3
	VIII VIII VIII VIII VIII VIII VIII VII	A 1.8 2.1 2.4
100-110-110-110-110-110-110-110-110-110	🖂   шф	B 4.3 5.3 6.6
	A HO IS	C 4.3 5.3 6.6
		E 1.0 1.3 2.2
※Voltage mark for 6.3V is ⌈6V⌋.	$0.5 \sim 0.8$ $\bigcirc$ Negative	

#### UZTUCION UZUCUCION Capacitance tolerance (±20%) Rated capacitance (10µF) Rated voltage (16V) Series name Type

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

### Dimensions

	V 6.3		10		16		25		35		50			
Cap. (µF)	Code	ode OJ		1	1A		1C		1E		1V		1H	
0.1	0R1		1		1		1		1		1	4	0.9	
0.22	R22		1									4	2.2	
0.33	R33		1		1				1			4	2.8	
0.47	R47											4	3.3	
1	010		1		1							4	5.4	
2.2	2R2											4	9.6	
3.3	3R3		1		l I		i I					4	12	
4.7	4R7							4	11	4	13	5	16	
10	100		1			4	16	5	20	5	22	6.3	26	
22	220	4	19	5	24	5	26	6.3	33	6.3	36			
33	330	5	26	5	30	6.3	35	6.3	42					
47	470	5	32	6.3	40	6.3	44							
100	101	6.3	52		1							Case size ¢D (mm)	Rated ripple	

Rated Ripple (mArms) at 105°C 120Hz

- Taping specifications are given in page 24.
  Recommended land size, soldering by reflow are
- given in page 25, 26.
- Please select UX(p.74), UJ(p.76) series if high C/V products are regired.
- Please refer to page 3 for the minimum order quantity.

CAT.8100V

# • Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz~
Coefficient	0.70	1.00	1.17	1.36	1.50