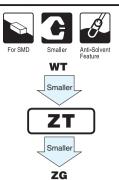
ALUMINUM ELECTROLYTIC CAPACITORS

4.5mmL Chip Type, Wide Temperature Range series

- ◆ Chip type with 4.5mm height, operating over wide temperature range of -40 to +105°C.
- 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).

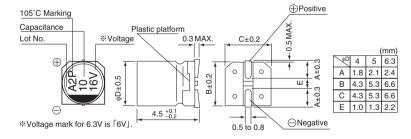




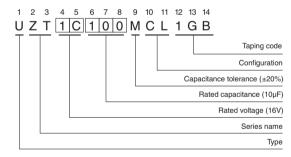
■Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 to +105°C										
Rated Voltage Range	6.3 to 50V	6.3 to 50V									
Rated Capacitance Range	0.1 to 100μF).1 to 100µF									
Capacitance Tolerance	±20% at 120Hz, 2	±20% at 120Hz, 20°C									
Leakage Current	After 2 minutes' ap	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA) , whichever is greater.									
	Measurement frequency : 120Hz at 20°C										
Tangent of loss angle (tan δ)	Rated voltage (V) 6.3 10			16 25			35	50			
	tan δ (MAX.)	tan δ (MAX.) 0.38 0.32 0.20 0.16 0.14		0.14							
	Measurement frequency : 120Hz										
Stability at Low Temperature		voltage (V)		6.3	10	16		3			
Stability at Low Temperature	Impedance ratio	Z-25°C / 2		6	5	3	3	3			
	ZT / Z20 (MAX.)	Z-40°C / 2	Z+20°C	10	10	6	6	4	4		
Endurance	The specifications met when the capa		Capacitance Within ±25% of the initial capacitance value (16V or less) within ±20% of the initial capacitance value (25V or more) tan δ 300% or less than initial specified value								
	20°C after the rated voltage is applied for 1000 hours at 105°C.				Leakage current Less than or equal to the initial specified value						-
Shelf Life	After storing the capacitors under no load at 105°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	is maintained at 25	50°Ċ. The ca irements list	hot plate for 30 seconds, which apacitors shall meet the sted at right when they are estored to 20°C . Capacitance change Within $\pm 10\%$ of the initial capacitance value $\tan \delta$ Less than or equal to the initial specified value Leakage current Less than or equal to the initial specified value					ied value			
Marking	Black print on the	case top.									

■Chip Type



Type numbering system (Example: 16V 10µF)



■ Dimensions

	V	6.	.3	1	0	1	16	2	25	3	35	5	0
Cap. (µF)	Code	0	J	1	A	1	С	1	E	1	V	1	Н
0.1	0R1		l I				ļ		!			4	0.9
0.22	R22		i I						İ		i	4	2.2
0.33	R33		I I		l		İ		l I		I I	4	2.8
0.47	R47		 						1			4	3.3
1	010		i I				İ		l I		i	4	5.4
2.2	2R2		 		1		ļ		<u> </u>			4	9.6
3.3	3R3		I									4	12
4.7	4R7		i i		i		i	4	11	4	13	5	16
10	100		l I			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		i		
47	470	5	32	6.3	40	6.3	44		1		!		
100	101	6.3	52									Case size φD (mm)	Rated ripple

Rated ripple current (mArms) at 105°C 120Hz

Frequency coefficient of rated ripple current

			1.1.		
Frequency	/ 50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficien	t 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 UX(p.154), UJ(p.160) series if high C/V products are regired.
- Please refer to page 3 for the minimum order quantity.

CAT.8100D