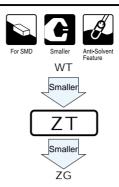
ALUMINUM ELECTROLYTIC CAPACITORS

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 (2002/95/EC).

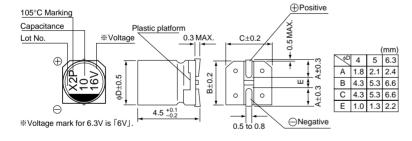




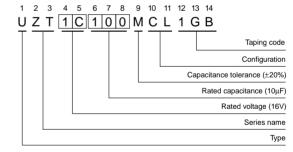
■ Specifications

Item	Performance Characteristics											
Category Temperature Range	-40 to +105°C											
Rated Voltage Range	6.3 to 50V											
Rated Capacitance Range	0.1 to 100μF											
Capacitance Tolerance	±20% at 120Hz, 2	0°C										
Leakage Current	After 2 minutes' ap	plication of I	rated volta	age, lea	kage curre	ent is r	ot more than	0.01CV	or 3 (µA)	, whichever is greater.		
	Measurement frequency : 120Hz, Temperature : 20°C											
Tangent of loss angle (tan δ)	Rated voltage (V) 6.3 10			16	25			50				
	tan δ (MAX.)	0.38	0.32		0.20	0.16	0.1	4	0.14	o°C 0 4 120Hz 50 3 4 capacitance value (16V or less) capacitance value (25V or more) cecified value capacitage treatment based on JIS listed above. //ithin ±10% of the initial capacitae cess than or equal to the initial specifier		
	Measurement frequency : 120Hz											
Stability at Low Temperature	Rated voltage (V)			6.3	10	16		35				
Stability at Low Temperature	Impedance ratio	Z-25°C / 2		6	5	3	3		0.14 quency: 120Hz 35 50 3 3 4 4 4 he initial capacitance value (16V or less he initial capacitance value (25V or morn initial specified value			
	ZT / Z20 (MAX.)	Z-40°C / 2	Z+20°C	10	10	6	6	4	4			
	The specifications		Capacitance Within ±25% of the initial capacitance value (16V or less)									
Endurance	met when the capa		change Within ±20% of the initial capacitance value (25V or more)									
Endurance	20°C after the rate		applied fo	r	tan δ				titial capacitance value (16V or less) titial capacitance value (25V or more) ial specified value te initial specified value g voltage treatment based on JIS (150)			
	1000 hours at 105	°C.			Leakage o	current	Less than or	equal to th	e initial spec	cified value		
Shelf Life	After storing the ca clause 4.1 at 20°C										C 5101-4	
	The capacitors are			ch [Capacitance change Within ±10% of the initial capacitance value							
Resistance to soldering	is maintained at 25					ţ	tan δ	9-				
heat	characteristic requ removed from the				ney are	į	Leakage cu	rrent				
Marking	Black print on the	case top.										

■Chip Type



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



■Dimensions

	V	6.3		10		16		25		35		50	
Cap. (µF)	Code	0	IJ	1	A	1	С	1	E	1	V	1	Н
0.1	0R1		!									4	0.9
0.22	R22		i				İ		i		i	4	2.2
0.33	R33		!		İ		İ		İ			4	2.8
0.47	R47		i i									4	3.3
1	010						ļ					4	5.4
2.2	2R2											4	9.6
3.3	3R3		i						i		i	4	12
4.7	4R7							4	11	4	13	5	16
10	100					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									Case size	Rated ripple

Rated ripple current (mArms) at 105°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 UX(p.104), UJ(p.108) series if high C/V products are regired.
- Please refer to page 3 for the minimum order quantity.

CAT.8100Z