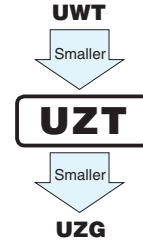


## UZT 4.5mmL Chip Type, Wide Temperature Range

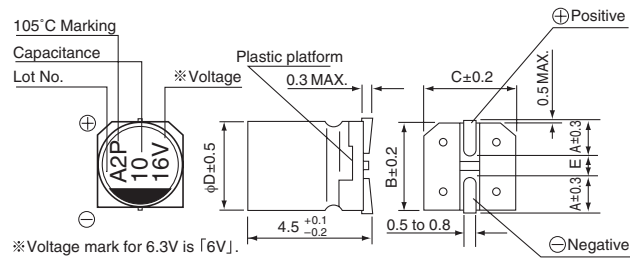


- Chip type with 4.5mm height, operating over wide temperature range of  $-40$  to  $+105^{\circ}\text{C}$ .
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

### Specifications

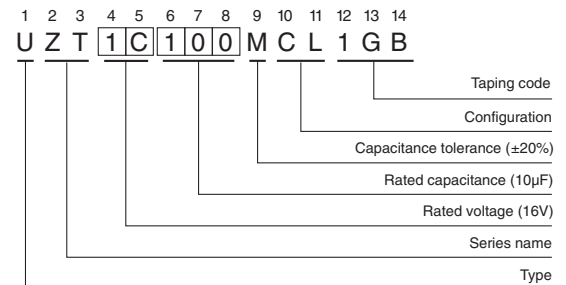
Item	Performance Characteristics						
Category Temperature Range	$-40$ to $+105^{\circ}\text{C}$						
Rated Voltage Range	6.3 to 50V						
Rated Capacitance Range	1 to $100\mu\text{F}$						
Capacitance Tolerance	$\pm 20\%$ at 120Hz, $20^{\circ}\text{C}$						
Leakage Current	After 2 minutes' application of rated voltage at $20^{\circ}\text{C}$ , leakage current is not more than $0.01\text{CV}$ or $3(\mu\text{A})$ , whichever is greater.						
Tangent of loss angle (tan $\delta$ )	Measurement frequency : 120Hz at $20^{\circ}\text{C}$						
	Rated voltage (V)	6.3	10	16	25	35	50
Stability at Low Temperature	Measurement frequency : 120Hz						
	Rated voltage (V)	6.3	10	16	25	35	50
	Impedance ratio ZT / Z20 (MAX.)	Z- $25^{\circ}\text{C}$ / Z+ $20^{\circ}\text{C}$	6	5	3	3	3
Endurance	The specifications listed at right shall be met when the capacitors are restored to $20^{\circ}\text{C}$ after the rated voltage is applied for 1000 hours at $105^{\circ}\text{C}$ .						
	Capacitance change	Within $\pm 25\%$ of the initial capacitance value (16V or less) Within $\pm 20\%$ of the initial capacitance value (25V or more)					
Shelf Life	After storing the capacitors under no load at $105^{\circ}\text{C}$ for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at $20^{\circ}\text{C}$ , they shall meet the specified values for the endurance characteristics listed above.						
	tan $\delta$	300% or less than initial specified value					
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at $250^{\circ}\text{C}$ . The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to $20^{\circ}\text{C}$ .						
	Leakage current	Less than or equal to the initial specified value					
Marking	Black print on the case top.						

### Chip Type



	(mm)		
φD	4	5	6.3
A	1.8	2.1	2.4
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E	1.0	1.3	2.2

### Type numbering system (Example : 16V 10 $\mu\text{F}$ )



### Dimensions

Cap. ( $\mu\text{F}$ )	Code	6.3		10		16		25		35		50	
		0J	1A	1C	1E	1V	1H						
1	010											4	5.4
2.2	2R2											4	9.6
3.3	3R3											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										

Rated ripple current (mA rms) at  $105^{\circ}\text{C}$  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 UUX(p.170), UUU(p.176) series if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.