

U**Z**T

4.5mmL Chip Type, Wide Temperature Range



For SMD



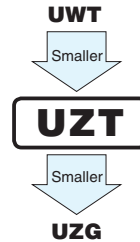
Smaller



Anti-Solvent Feature



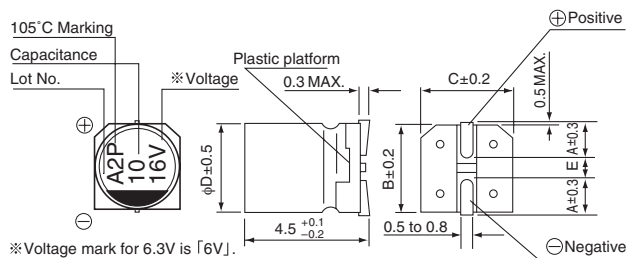
- Chip type with 4.5mm height, operating over wide temperature range of  $-40$  to  $+105^{\circ}\text{C}$ .
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).
- AEC-Q200 compliant.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



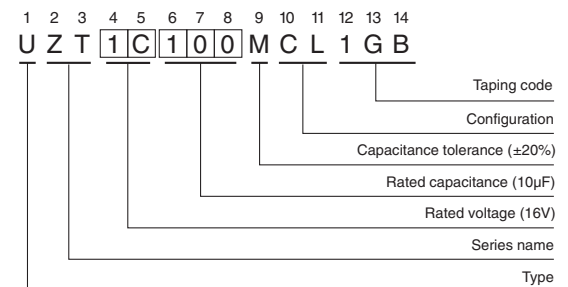
## Specifications

Item	Performance Characteristics							
Category Temperature Range	-40 to +105°C							
Rated Voltage Range	6.3 to 50V							
Rated Capacitance Range	1 to 100μF							
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 0.01CV or 3 (μA) , whichever is greater.							
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C							
	Rated voltage (V)	6.3	10	16	25	35	50	
	tan δ (MAX.)	0.38	0.32	0.20	0.16	0.14	0.14	
Stability at Low Temperature	Measurement frequency : 120Hz							
	Rated voltage (V)		6.3	10	16	25	35	50
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	6	5	3	3	3	3
		Z-40°C / Z+20°C	10	10	6	6	4	4
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C.			Capacitance change		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		
				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	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.				Capacitance change		Within ± 10% of the initial capacitance value	
					tan δ		Less than or equal to the initial specified value	
					Leakage current		Less than or equal to the initial specified value	
Marking	Black print on the case top.							

## Chip Type



## Type numbering system (Example : 16V 10μF)



## Dimensions

V	6.3	10	16	25	35	50
Cap. ( $\mu\text{F}$ )	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					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.158), UUU(p.164) series if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.