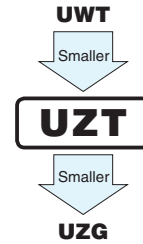


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4.5mmL Chip Type, Wide Temperature Range

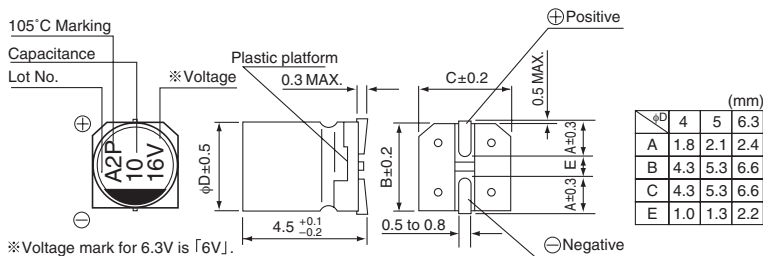


- Chip type with 4.5mm height, operating over wide temperature range of -40 to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please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

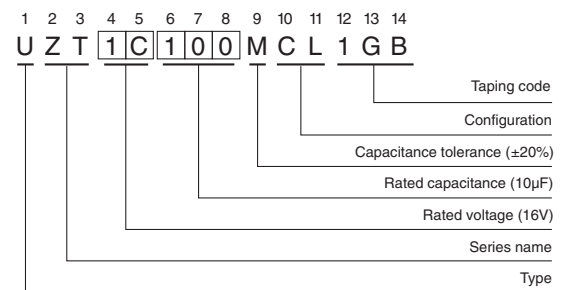
Specifications

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	
Stability at Low Temperature	Measurement frequency : 120Hz							
	Impedance ratio	Z-25°C / Z+20°C	6	5	3	3	3	3
	ZT / Z20 (MAX.)	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)				
			tan δ	Within ±20% of the initial capacitance value (25V or more)				
			Leakage current	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				
			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)



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

● Dimension table in next page.

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■Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 2 minutes)	Rated Ripple (mArms) (105°C/120Hz)	Part Number
6.3 (0J)	22	4×4.5	0.38	3	19	UZT0J220MCL1GB
	33	5×4.5	0.38	3	26	UZT0J330MCL1GB
	47	5×4.5	0.38	3	32	UZT0J470MCL1GB
	100	6.3×4.5	0.38	6.3	52	UZT0J101MCL1GB
10 (1A)	22	5×4.5	0.32	3	24	UZT1A220MCL1GB
	33	5×4.5	0.32	3.3	30	UZT1A330MCL1GB
	47	6.3×4.5	0.32	4.7	40	UZT1A470MCL1GB
16 (1C)	10	4×4.5	0.20	3	16	UZT1C100MCL1GB
	22	5×4.5	0.20	3.52	26	UZT1C220MCL1GB
	33	6.3×4.5	0.20	5.28	35	UZT1C330MCL1GB
	47	6.3×4.5	0.20	7.52	44	UZT1C470MCL1GB
25 (1E)	4.7	4×4.5	0.16	3	11	UZT1E4R7MCL1GB
	10	5×4.5	0.16	3	20	UZT1E100MCL1GB
	22	6.3×4.5	0.16	5.5	33	UZT1E220MCL1GB
	33	6.3×4.5	0.16	8.25	42	UZT1E330MCL1GB
35 (1V)	4.7	4×4.5	0.14	3	13	UZT1V4R7MCL1GB
	10	5×4.5	0.14	3.5	22	UZT1V100MCL1GB
	22	6.3×4.5	0.14	7.7	36	UZT1V220MCL1GB
50 (1H)	1	4×4.5	0.14	3	5.4	UZT1H010MCL1GB
	2.2	4×4.5	0.14	3	9.6	UZT1H2R2MCL1GB
	3.3	4×4.5	0.14	3	12	UZT1H3R3MCL1GB
	4.7	5×4.5	0.14	3	16	UZT1H4R7MCL1GB
	10	6.3×4.5	0.14	5	26	UZT1H100MCL1GB

- Taping specifications are given in page 20.
- Recommended land size, soldering by reflow are given in page 16, 17.
- Please select UUX(p.174), UUU(p.184) series if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.