

## UUT 6mmL Chip Type, Wide Temperature Range



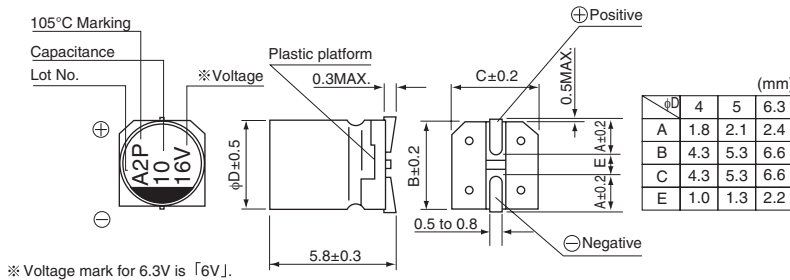
- Chip type with load life 2000 hours at +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).
- AEC-Q200 compliant. Please contact us for details.



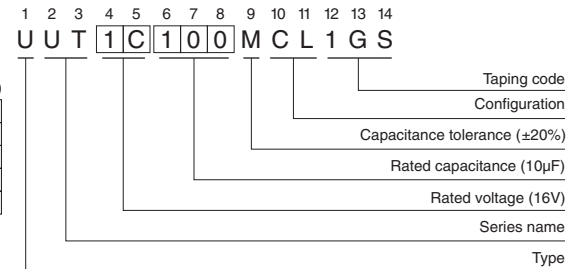
### Specifications

Item	Performance Characteristics										
Category Temperature Range	-55 to +105°C										
Rated Voltage Range	4 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 0.01 CV or 3 (μA) , whichever is greater.										
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C										
	Rated voltage (V)	4	6.3	10	16	25	35	50			
	tan δ (MAX.)	0.37	0.28	0.24	0.20	0.16	0.13	0.12			
Stability at Low Temperature	Measurement frequency : 120Hz										
	Rated voltage (V)	4	6.3	10	16	25	35	50			
	Impedance ratio	Z-25°C / Z+20°C	6	3	3	2	2	2	2		
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	12	8	5	4	3	3			
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 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	200% or less than the 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

Cap.(μF)	Code	4		6.3		10		16		25		35		50	
		0G		0J		1A		1C		1E		1V		1H	
1	010													4	6.2
2.2	2R2													4	11
3.3	3R3													4	14
4.7	4R7													5	19
10	100							4	18	5	23	5	25	6.3	30
22	220	4	22	4	22	5	27	5	30	6.3	38	6.3	42		
33	330	5	30	5	30	5	35	6.3	40	6.3	48				
47	470	5	36	5	36	6.3	46	6.3	50						
100	101	6.3	60	6.3	60	6.3	60								

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 UUX(p.158), UUU(p.164) if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.

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