

UUT

6mmL Chip Type, Wide Temperature Range



For SMD



Anti-Solvent Feature

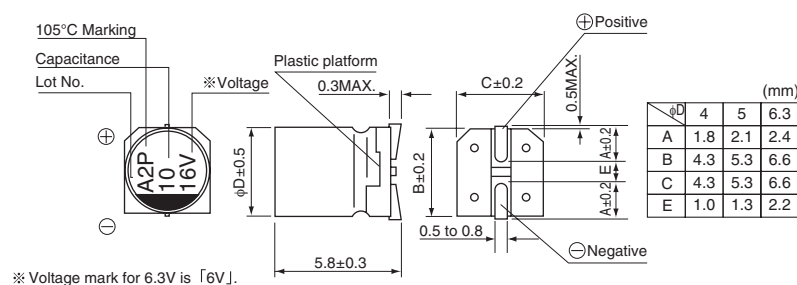
- Chip type with load life 2000 hours at +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



Specifications

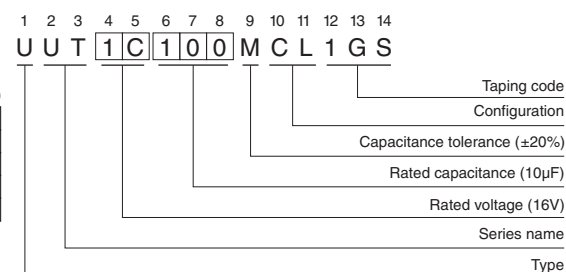
Item	Performance Characteristics																		
Category Temperature Range	-55 to +105°C																		
Rated Voltage Range	4 to 50V																		
Rated Capacitance Range	1 to 100μF																		
Capacitance Tolerance	±20% at 120Hz, 20°C																		
Leakage Current	After 2 minutes' 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)	<table border="1"> <tr> <th colspan="2">Measurement frequency : 120Hz at 20°C</th></tr> <tr> <th>Rated voltage (V)</th><th></th></tr> <tr> <td>4</td><td>6.3</td></tr> <tr> <td>10</td><td>16</td></tr> <tr> <td>25</td><td>35</td></tr> <tr> <td>50</td><td></td></tr> <tr> <td>tan δ (MAX.)</td><td>0.37 0.28 0.24 0.20 0.16 0.13 0.12</td></tr> </table>	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				
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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. <table border="1"> <tr> <td>Capacitance change</td><td>Within ±25% of the initial capacitance value (16V or less)</td></tr> <tr> <td>tan δ</td><td>Within ±20% of the initial capacitance value (25V or more)</td></tr> <tr> <td>Leakage current</td><td>200% or less than the initial specified value</td></tr> <tr> <td></td><td>Less than or equal to the initial specified value</td></tr> </table>	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	200% or less than the initial specified value		Less than or equal to the initial specified value										
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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. <table border="1"> <tr> <td>Capacitance change</td><td>Within ±10% of the initial capacitance value</td></tr> <tr> <td>tan δ</td><td>Less than or equal to the initial specified value</td></tr> <tr> <td>Leakage current</td><td>Less than or equal to the initial specified value</td></tr> </table>	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												
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Marking	Black print on the case top.																		

Chip Type



※ Voltage mark for 6.3V is 「6V」.

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

UUT

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D $\times$ L (mm)	$\tan \delta$	Leakage Current (μ A) (at 20°C after 2 minutes)	Rated Ripple (mArms) (105°C/120Hz)	Part Number
4 (0G)	22	4 $\times$ 5.8	0.37	3	22	UUT0G220MCL1GS
	33	5 $\times$ 5.8	0.37	3	30	UUT0G330MCL1GS
	47	5 $\times$ 5.8	0.37	3	36	UUT0G470MCL1GS
	100	6.3 $\times$ 5.8	0.37	4	60	UUT0G101MCL1GS
6.3 (0J)	22	4 $\times$ 5.8	0.28	3	22	UUT0J220MCL1GS
	33	5 $\times$ 5.8	0.28	3	30	UUT0J330MCL1GS
	47	5 $\times$ 5.8	0.28	3	36	UUT0J470MCL1GS
	100	6.3 $\times$ 5.8	0.28	6.3	60	UUT0J101MCL1GS
10 (1A)	22	5 $\times$ 5.8	0.24	3	27	UUT1A220MCL1GS
	33	5 $\times$ 5.8	0.24	3.3	35	UUT1A330MCL1GS
	47	6.3 $\times$ 5.8	0.24	4.7	46	UUT1A470MCL1GS
	100	6.3 $\times$ 5.8	0.24	10	60	UUT1A101MCL1GS
16 (1C)	10	4 $\times$ 5.8	0.20	3	18	UUT1C100MCL1GS
	22	5 $\times$ 5.8	0.20	3.52	30	UUT1C220MCL1GS
	33	6.3 $\times$ 5.8	0.20	5.28	40	UUT1C330MCL1GS
	47	6.3 $\times$ 5.8	0.20	7.52	50	UUT1C470MCL1GS
25 (1E)	4.7	4 $\times$ 5.8	0.16	3	13	UUT1E4R7MCL1GS
	10	5 $\times$ 5.8	0.16	3	23	UUT1E100MCL1GS
	22	6.3 $\times$ 5.8	0.16	5.5	38	UUT1E220MCL1GS
	33	6.3 $\times$ 5.8	0.16	8.25	48	UUT1E330MCL1GS
35 (1V)	4.7	4 $\times$ 5.8	0.13	3	15	UUT1V4R7MCL1GS
	10	5 $\times$ 5.8	0.13	3.5	25	UUT1V100MCL1GS
	22	6.3 $\times$ 5.8	0.13	7.7	42	UUT1V220MCL1GS
50 (1H)	1	4 $\times$ 5.8	0.12	3	6.2	UUT1H010MCL1GS
	2.2	4 $\times$ 5.8	0.12	3	11	UUT1H2R2MCL1GS
	3.3	4 $\times$ 5.8	0.12	3	14	UUT1H3R3MCL1GS
	4.7	5 $\times$ 5.8	0.12	3	19	UUT1H4R7MCL1GS
	10	6.3 $\times$ 5.8	0.12	5	30	UUT1H100MCL1GS

- For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.
- Please select UUX, UUU if high C/V products are required.