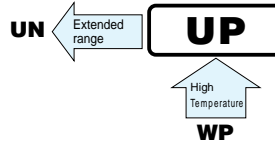


ALUMINUM ELECTROLYTIC CAPACITORS

UP series 6mmL Chip Type, Bi-Polarized



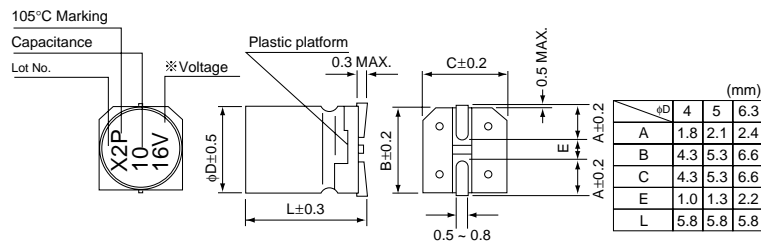
- Chip type, bi-polarized withstanding high temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.



Specifications

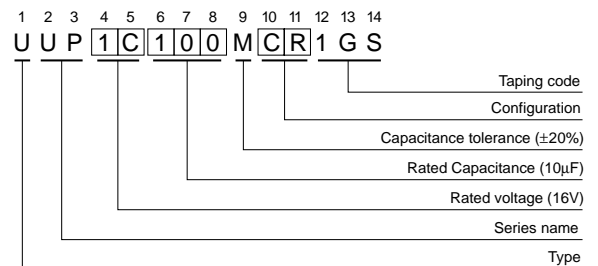
Item	Performance Characteristics																					
Category Temperature Range	-55 ~ +105°C																					
Rated Voltage Range	6.3 ~ 50V																					
Rated Capacitance Range	0.1 ~ 47μF																					
Capacitance Tolerance	±20% at 120Hz, 20°C																					
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.05 CV or 10 (μA), whichever is greater.																					
tan δ	Measurement frequency : 120Hz, Temperature : 20°C																					
	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tan δ (MAX.)</td> <td>0.24</td> <td>0.20</td> <td>0.17</td> <td>0.17</td> <td>0.15</td> <td>0.15</td> </tr> </table>	Rated voltage (V)	6.3	10	16	25	35	50	tan δ (MAX.)	0.24	0.20	0.17	0.17	0.15	0.15							
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Stability at Low Temperature	Measurement frequency : 120Hz																					
	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Impedance ratio Z-25°C / Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>ZT / Z20 (MAX.)</td> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	Rated voltage (V)	6.3	10	16	25	35	50	Impedance ratio Z-25°C / Z+20°C	4	3	2	2	2	2	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	8	6	4	4	3
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Endurance	<p>After 1000 hours' application of rated voltage at 105°C with the polarity inverted every 250 hours, capacitors meet the characteristic requirements listed at right.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>tan δ</td> <td>200% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within ±20% of initial value	tan δ	200% or less of initial specified value	Leakage current	Initial specified value or less															
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Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.																					
Resistance to soldering heat	<p>The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±10% of initial value</td> </tr> <tr> <td>tan δ</td> <td>Initial specified value or less</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within ±10% of initial value	tan δ	Initial specified value or less	Leakage current	Initial specified value or less															
Capacitance change	Within ±10% of initial value																					
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Leakage current	Initial specified value or less																					
Marking	Black print on the case top.																					

Chip Type



※ Voltage mark for 6.3V is 「6V」

Type numbering system (Example : 16V 10μF)



- The lead-free product is also available upon request. In this case, [L] will be put at 11th digit of type numbering system.

Dimensions

Cap.(μF)	V Code	6.3		10		16		25		35		50		
		0J		1A		1C		1E		1V		1H		
0.1	0R1											4	1.0	
0.22	R22											4	2.0	
0.33	R33											4	2.8	
0.47	R47											4	4.0	
1	010											4	8.4	
2.2	2R2										4	8.4	5	13
3.3	3R3							5	12	5	16	5	17	
4.7	4R7					4	12	5	16	5	18	6.3	20	
10	100			4	17	5	23	6.3	27	6.3	29			
22	220	5	28	6.3	33	6.3	37							
33	330	6.3	37	6.3	41	6.3	49							
47	470	6.3	45											

Rated Ripple (mA rms) at 105°C 120Hz

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz~
Coefficient	0.70	1.00	1.17	1.36	1.50

- Taping specifications are given in page 22.
- Recommended land size are given in page 23
- Please refer to page 3 for the minimum order quantity.

CAT.8100T