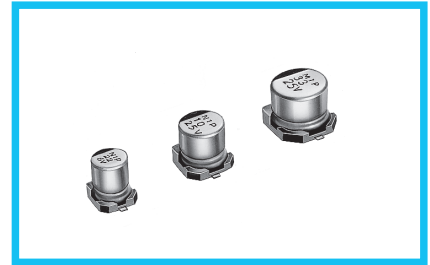
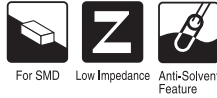


ALUMINUM ELECTROLYTIC CAPACITORS

UWF Chip Type, Low Impedance



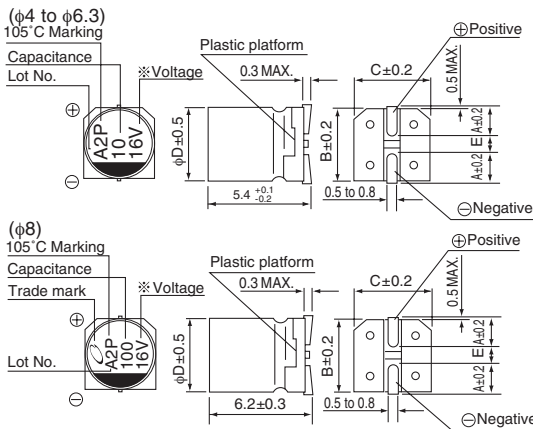
- Chip type, low impedance temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



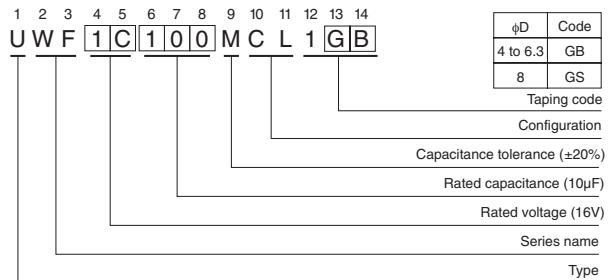
Specifications

Item	Performance Characteristics																							
Category Temperature Range	-55 to +105°C																							
Rated Voltage Range	6.3 to 35V																							
Rated Capacitance Range	1 to 220μF																							
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																		
Stability at Low Temperature	Measurement frequency : 120Hz																							
	Rated voltage (V)	6.3	10	16	25	35																		
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.		<table border="1"> <tr> <td>Capacitance change</td> <td colspan="5">Within ±20% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td colspan="5">200% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="5">Less than or equal to the initial specified value</td> </tr> </table>				Capacitance change	Within ±20% of the initial capacitance value					tan δ	200% or less than the initial specified value					Leakage current	Less than or equal to the initial specified value				
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tan δ	200% or less than the initial specified value																							
Leakage current	Less than or equal to the initial specified value																							
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 colspan="5">Within ±10% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td colspan="5">Less than or equal to the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="5">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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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	6.3			10			16			25			35			
		0J			1A			1C			1E			1V			
1	010													4	5.0	50	
1.5	1R5													4	5.0	50	
2.2	2R2													4	5.0	50	
3.3	3R3													4	5.0	50	
4.7	4R7											4	5.0	50	4	5.0	50
6.8	6R8											4	5.0	50	5	2.6	80
10	100							4	5.0	50	5	2.6	80	5	2.6	80	
15	150							5	2.6	80	6.3	1.3	115	6.3	1.3	115	
22	220	4	5.0	50	5	2.6	80	5	2.6	80	6.3	1.3	115	6.3	1.3	115	
33	330	5	2.6	80	5	2.6	80	6.3	1.3	115	6.3	1.3	115	8	0.8	150	
47	470	5	2.6	80	6.3	1.3	115	6.3	1.3	115	8	0.8	150	8	0.8	150	
68	680	6.3	1.3	115	6.3	1.3	115	8	0.8	150	8	0.8	150				
100	101	6.3	1.3	115	8	0.8	150	8	0.8	150							
150	151	8	0.8	150	8	0.8	150										
220	221	8	0.8	150													

Case size φD (mm) Impedance Rated ripple

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

Max. Impedance (Ω) at 20°C 100kHz
Rated ripple current (mA rms) at 105°C 100kHz

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UUU(p.162) if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.