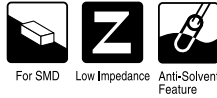


ALUMINUM ELECTROLYTIC CAPACITORS

WF Chip Type, Low Impedance series



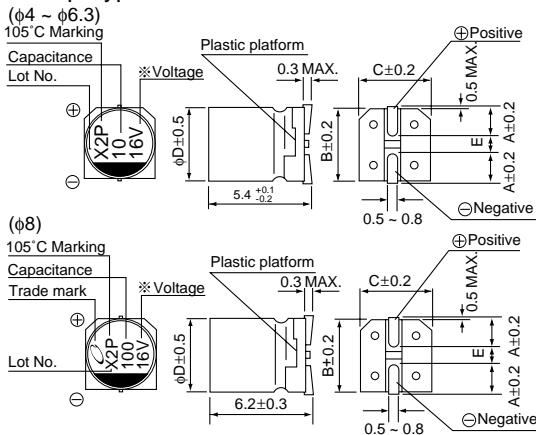
- Chip type, low impedance temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.



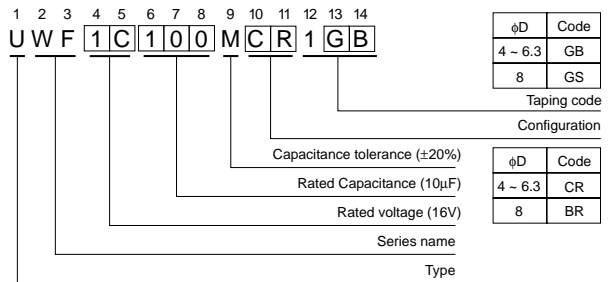
Specifications

Item	Performance Characteristics					
Category Temperature Range	-55 ~ +105°C					
Rated Voltage Range	6.3 ~ 35V					
Rated Capacitance Range	1 ~ 220μF					
Capacitance Tolerance	±20% at 120Hz, 20°C					
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.					
tan δ	Measurement frequency : 120Hz, Temperature : 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
	Impedance ratio Z-25°C / Z+20°C	2	2	2	2	2
Endurance	After 1000 hours' application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.					
	Capacitance change	Within ±20% of initial value				
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.					
	tan δ	200% or less of initial specified value				
Resistance to soldering heat	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.					
	Leakage current	Initial specified value or less				
Marking	Black print on the case top.					

Chip Type



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.
- Size φ8, **CL** will be put at 10th and 11th digit of type numbering system.

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													

Frequency coefficient of rated ripple current

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

- 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.

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