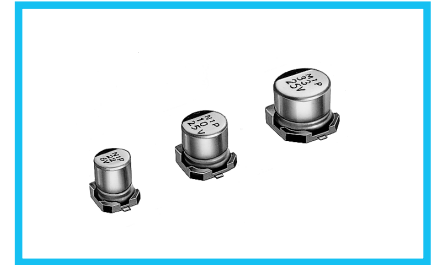


ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

WF Chip Type, Low Impedance
series



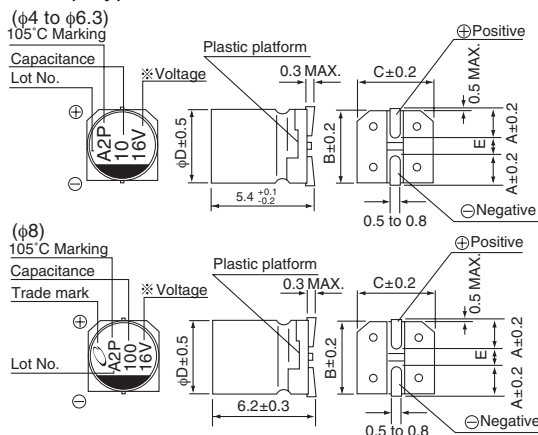
- Chip type, low impedance temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



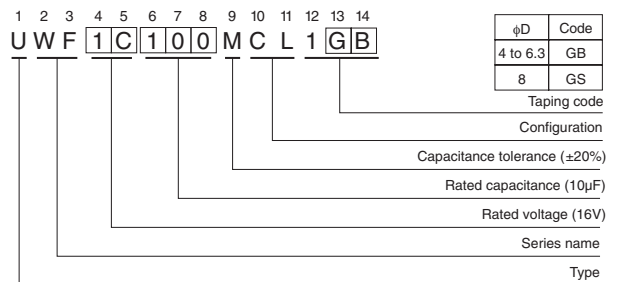
Specifications

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, 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
	tan δ (MAX.)	0.22	0.19	0.16	0.14	0.12
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
	ZT / Z20 (MAX.)	Z-55°C / Z+20°C	4	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 1000 hours at 105°C.			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
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)	V	6.3	10	16	25	35
	Code	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 or more
Coefficient	0.35	0.50	0.64	0.83	1.00

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UJ(p.160) series if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.

CAT.8100D

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