ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UWJ

5.5mmL Chip Type
High Temperature (260°C) Reflow

For SMD | Anti-Solvent Feature

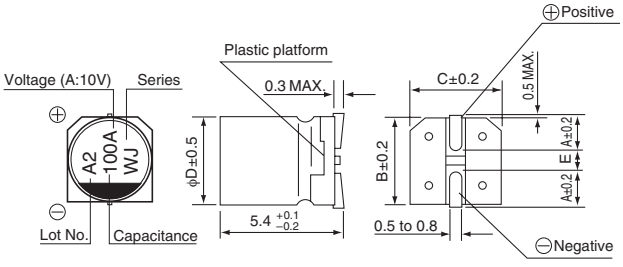
- Corresponding with 260°C peak reflow soldering
  Recomended reflow condition : 260°C peak 5 sec. 230°C over 60 sec. 2 times
- Chip type with 5.5mm height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Load life of 2000 hours at 85°C
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

UWJ
High Temperature Reflow
UWX

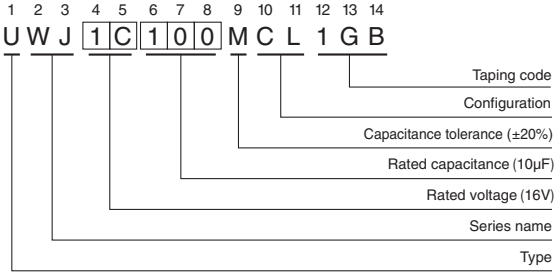
■Specifications

Item	Performance Characteristics
Category Temperature Range	−40 to +85°C
Rated Voltage Range	6.3 to 50V
Rated Capacitance Range	1 to 150µF
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 / 50 tan δ (MAX.): 0.26 / 0.20 / 0.16 / 0.14 / 0.12 / 0.12
Stability at Low Temperature	Measurement frequency : 120Hz 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 / 8 / 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 2000 hours at 85°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 85°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)



Voltage

V	6.3	10	16	25	35	50
Code	j	A	C	E	V	H

(mm)

φD	4	5	6.3
A	1.8	2.1	2.4
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E	1.0	1.3	2.2

● 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

● Dimension table in next page.

UWJ

■Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L(mm)	tan δ	Leakage Current (μA) (at 20℃ after 2 minutes)	Rated Ripple (mArms) (85℃/120Hz)	Part Number
6.3 (0J)	22	4×5.4	0.26	3	28	UWJ0J220MCL1GB
	33	5×5.4	0.26	3	37	UWJ0J330MCL1GB
	47	5×5.4	0.26	3	45	UWJ0J470MCL1GB
	100	6.3×5.4	0.26	6.3	70	UWJ0J101MCL1GB
	150	6.3×5.4	0.26	9.45	71	UWJ0J151MCL1GB
10 (1A)	22	5×5.4	0.20	3	33	UWJ1A220MCL1GB
	33	5×5.4	0.20	3.3	41	UWJ1A330MCL1GB
	47	6.3×5.4	0.20	4.7	52	UWJ1A470MCL1GB
	100	6.3×5.4	0.20	10	76	UWJ1A101MCL1GB
16 (1C)	10	4×5.4	0.16	3	23	UWJ1C100MCL1GB
	22	5×5.4	0.16	3.52	37	UWJ1C220MCL1GB
	33	6.3×5.4	0.16	5.28	49	UWJ1C330MCL1GB
	47	6.3×5.4	0.16	7.52	58	UWJ1C470MCL1GB
	100	6.3×5.4	0.16	16	86	UWJ1C101MCL1GB
25 (1E)	4.7	4×5.4	0.14	3	16	UWJ1E4R7MCL1GB
	10	5×5.4	0.14	3	27	UWJ1E100MCL1GB
	22	6.3×5.4	0.14	5.5	42	UWJ1E220MCL1GB
	33	6.3×5.4	0.14	8.25	52	UWJ1E330MCL1GB
35 (1V)	4.7	4×5.4	0.12	3	18	UWJ1V4R7MCL1GB
	10	5×5.4	0.12	3.5	29	UWJ1V100MCL1GB
	22	6.3×5.4	0.12	7.7	45	UWJ1V220MCL1GB
50 (1H)	1	4×5.4	0.12	3	8.4	UWJ1H010MCL1GB
	2.2	4×5.4	0.12	3	13	UWJ1H2R2MCL1GB
	3.3	4×5.4	0.12	3	17	UWJ1H3R3MCL1GB
	4.7	5×5.4	0.12	3	20	UWJ1H4R7MCL1GB
	10	6.3×5.4	0.12	5	33	UWJ1H100MCL1GB

- Taping specifications are given in page 20.
- Recommended land size, soldering by reflow are given in page 16, 17.
- Please refer to page 3 for the minimum order quantity.

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