



**THE DATASHEET OF
UWJ1A101MCL1GB**



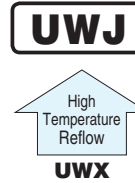
ALUMINUM ELECTROLYTIC CAPACITORS

UWJ

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



- Corresponding with 260°C peak reflow soldering
Recommended 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.



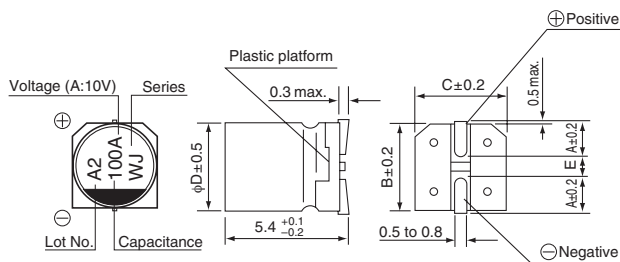
Products which are scheduled to be discontinued.
Not recommended for new designs.

Specifications

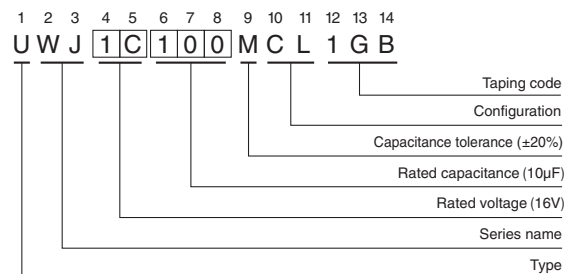
Item	Performance Characteristics							
Category Temperature Range	-40 to +85°C							
Rated Voltage Range	6.3 to 50V							
Rated Capacitance Range	1 to 150μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current ※	After 2 minutes' application of rated voltage at 20°C, leakage current 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
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.		Leakage Current					Less than or equal to the initial specified value
			Capacitance change					Within ±10% of the initial capacitance 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.		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.							

※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

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

• For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

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