ALUMINUM ELECTROLYTIC CAPACITORS

UWS

Chip Type, High CV High Temperature (260°C) Reflow





- Corresponding with 260°C peak reflow soldering Recomended reflow condition: 260°C peak 5 sec. 230°C over 60 sec. 2 times (φ8 x 6.2, φ10 x 10:1 time)
- Chip type higher capacitance in large case size.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).

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



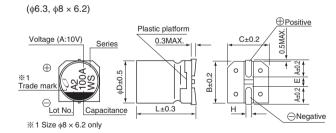


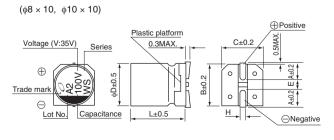


■ Specifications

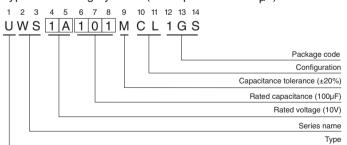
Item	Performance Characteristics										
Category Temperature Range	-40 to +85°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	22 to 1500μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV (μA).										
	Measurement frequency : 120Hz at 20°C										
Tangent of loss angle (tan δ)	Rated voltage (V) 6.3 10 16 25 35 50										
	tan δ (MAX.) 0.28 0.24 0.20 0.16 0.14 0.12										
	Measurement frequency: 120Hz										
Stability at Low Temperature	Rated voltage (V) 6.3 10 16 25 35 50										
Stability at Low Temperature	Impedance ratio Z-25°C / Z+20°C 5 4 3 2 2 2										
	ZT / Z20 (MAX.) Z-40°C / Z+20°C 10 8 6 4 3 3										
	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated tan δ 200% or less than the initial specified value										
Endurance	voltage is applied for 2000 hours at 85°C. Leakage current Less than or equal to the initial specified value										
	Voltage to applied for 2000 floors at 60 O. Leanage Current Less trial or equal to the fillial 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.										
	The capacitors are kept on a hot plate for 30 seconds,										
Resistance to soldering	which is maintained at 250°C. The capacitors shall meet										
heat	the characteristic requirements listed at right when they										
	are removed from the plate and restored to 20°C.										
Marking	Black print on the case top.										

■Chip Type





Type numbering system (Example: 10V 100µF)



					(mm)
φ DxL	6.3 × 5.8	6.3 × 7.7	8 × 6.2	8 × 10	10 × 10
Α	2.4	2.4	3.3	2.9	3.2
В	6.6	6.6	8.3	8.3	10.3
С	6.6	6.6	8.3	8.3	10.3
E	2.2	2.2	2.3	3.1	4.5
L	5.8	7.7	6.2	10	10
Н	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

Voltage

V	6.3	10	16	25	35	50
Code	j	Α	С	Е	V	Н

Dimension table in next page.

UWS

■Dimensions

V		6.3		10		16		25		35		50	
Cap. (μF) Code		0J		1A		1C		1E		1V		1H	
22	220											6.3 × 5.8	45
33	330									6.3 × 5.8	55	8 × 6.2	95
47	470							6.3 × 5.8	65	8 × 6.2	105	8 × 10	140
100	101			6.3 × 5.8	70	8 × 6.2	125	8 × 6.2	145	8×10	175	10 × 10	195
150	151			6.3 × 5.8	85	6.3 × 7.7	151	8 × 10	192	8×10	214	10 × 10	238
220	221	8 × 6.2	160	8 × 6.2	175	8 × 10	215	10 × 10	250	10 × 10	265	10 × 10	289
330	331	8 × 6.2	190	8 × 10	240	8 × 10	270	10×10	305	10 × 10	324		
470	471	8×10	265	8 × 10	290	10 × 10	330	10×10	393				
680	681	8 × 10	318	10 × 10	374	10 × 10	396						
1000	102	10 × 10	400	10 × 10	454		 					Case size	Rated
1500	152	10 × 10	489									φD×L(mm)	ripple

Rated ripple current (mArms) at 85°C 120Hz

• Frequency coefficient of rated ripple current

Cap.(µF) Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Less than 47	0.80	1.00	1.15	1.40	1.67
100 to 1500	0.85	1.00	1.08	1.20	1.30

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.