ALUMINUM ELECTROLYTIC CAPACITORS



6mmL Chip Type, Bi-Polarized



- \bullet Chip type, bi-polarized withstanding high 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,(EU)2015/863).
- AEC-Q200 Qualified. Please contact us for details.



UWP

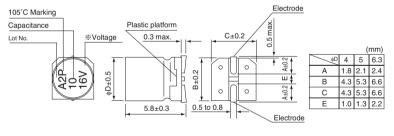


■ Specifications

Item	Performance Characteristics										
Category Temperature Range	−55 to +105°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	0.1 to 47μF										
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 0.05 CV or 10 (μA), whichever is greater.										
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C										
	Rated voltage (V)	6.3	10		16		25	3	5	50	
	tan δ (max.)	0.24	0.20	0	0.17	C	.17	0.	15	0.15	
	Measurement frequency : 120Hz										
Out in the Table	Rated voltage (V)		6.3	3 10	16	3	25	35	50		
Stability at Low Temperature	Impedance ratio	Z(-25°C) / Z(-	+20°C)	4	3	2		2	2	2	
	ZT / Z20 (max.)	Z(-40°C) / Z(-	+20°C)	8	6	4		4	3	3	
Endurance	The specifications listed at right shall be met Capacitance change Within ±20% of the initial capacitance value										
	when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C with the polarity every 250 hours.				tan δ			200% or less than the initial specified value			
					Leakage current Less than or equal to the initi					nitial specified v	alue
Shelf Life	After staying the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on IIS C 5101.4										
	The capacitors are kept on a hot plate for 30 seconds, which is Capacitance change Within ±10% of the initial capacitance value										
Resistance to soldering heat	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		nt	Less than or equal to the initial specified value	
Marking	Black print on the case top.										
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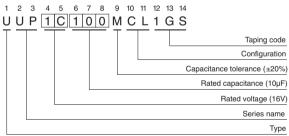
 $\ \, \ \, \ \, \text{$\mathbb{K}$ I : Leakage Current(μA), $C:$ Rated Capacitance(μF), $V:$ Rated Voltage(V)}$

■Chip Type



 \times Voltage mark for 6.3V is $\lceil 6V \rfloor$

Type numbering system (Example: 16V 10µF)



• Frequency coefficient of rated ripple current

- 1 7			1. 1		
Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.70	1.00	1 17	1 36	1.50



■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size	tan δ	Leakage Current (µA) (at 20°C after 2 minutes	Rated Ripple (mArms) (105°C/120Hz)	Part Number
	22	5×5.8	0.24	10	28	UUP0J220MCL1GS
6.3 (0J)	33	6.3×5.8	0.24	10.395	37	UUP0J330MCL1GS
	47	6.3×5.8	0.24	14.805	45	UUP0J470MCL1GS
	10	4×5.8	0.20	10	17	UUP1A100MCL1GS
10 (1A)	22	6.3×5.8	0.20	11	33	UUP1A220MCL1GS
(11)	33	6.3×5.8	0.20	16.5	41	UUP1A330MCL1GS
	4.7	4×5.8	0.17	10	12	UUP1C4R7MCL1GS
16	10	5×5.8	0.17	10	23	UUP1C100MCL1GS
(1C)	22	6.3×5.8	0.17	17.6	37	UUP1C220MCL1GS
	33	6.3×5.8	0.17	26.4	49	UUP1C330MCL1GS
	3.3	5×5.8	0.17	10	12	UUP1E3R3MCL1GS
25 (1E)	4.7	5×5.8	0.17	10	16	UUP1E4R7MCL1GS
() _/	10	6.3×5.8	0.17	12.5	27	UUP1E100MCL1GS
	2.2	4×5.8	0.15	10	8.4	UUP1V2R2MCL1GS
35	3.3	5×5.8	0.15	10	16	UUP1V3R3MCL1GS
(1V)	4.7	5×5.8	0.15	10	18	UUP1V4R7MCL1GS
	10	6.3×5.8	0.15	17.5	29	UUP1V100MCL1GS
	0.1	4×5.8	0.15	10	1.0	UUP1H0R1MCL1GS
	0.22	4×5.8	0.15	10	2.0	UUP1HR22MCL1GS
	0.33	4×5.8	0.15	10	2.8	UUP1HR33MCL1GS
50	0.47	4×5.8	0.15	10	4.0	UUP1HR47MCL1GS
(1H)	1	4×5.8	0.15	10	8.4	UUP1H010MCL1GS
	2.2	5×5.8	0.15	10	13	UUP1H2R2MCL1GS
	3.3	5×5.8	0.15	10	17	UUP1H3R3MCL1GS
	4.7	6.3×5.8	0.15	11.75	20	UUP1H4R7MCL1GS

For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.
 Please select UUN if high C/V products are required.