ALUMINUM ELECTROLYTIC CAPACITORS



6mmL Chip Type, Bi-Polarized







UWP

- \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 compliant. Please contact us for details.

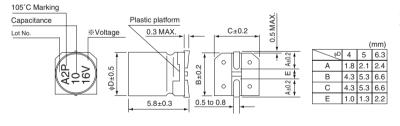




■ Specifications

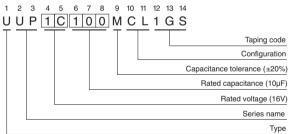
Item	Performance Characteristics											
Category Temperature Range	−55 to +105°C											
Rated Voltage Range	6.3 to 50V											
Rated Capacitance Range	0.1 to 47μF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 2 minutes' application of rated voltage at 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)	d voltage (V) 6.3 10				16 2		25	25 35		50	
	tan δ (MAX.)	0.24	0.20	0		0.17	0	.17	0.	15	0.15	
	Measurement frequency: 120Hz											
Otaliin alla Tarrani	Rated voltage (V) 6		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								e 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 initial s						initial specified	d 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 Capacitance change Within ±10% of the initial capacitance value.									6 of the initial capacitance value		
	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 c	ase top.										

■Chip Type



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

Type numbering system (Example : 16V $10\mu F$)



• 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
(30)	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

[•] Taping specifications are given in page 20.

<sup>Recommended land size, soldering by reflow are given in page 16, 17.
Please select UUN(p.187) if high CV products are required.
Please refer to page 3 for the minimum order quantity.</sup>