ALUMINUM ELECTROLYTIC CAPACITORS

UUP

6mmL Chip Type, Bi-Polarized

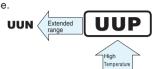






UWP

- 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.



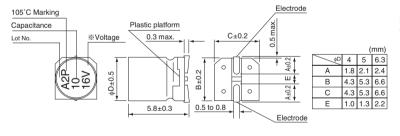


■ Specifications

3 to 50V		−55 to +105°C									
	6.3 to 50V										
0.1 to 47μF											
±20% at 120Hz, 20°C											
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.											
Measurement frequency : 120Hz at 20°C											
Rated voltage (V) 6.3 10			-	16 25			35		50		
tan δ (max.)	0.24	0.20)	0.1	17	0.17		0.1	15	0.15	
Measurement frequency: 120Hz											
Rated voltage (V) 6		6.3	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(+	Z(-40°C) / Z(+20°C)			6	4		4	3	3	
The specifications listed at right shall be met Capacitance change Within ±20% of the initial capacitance value											
				tan δ			200% or less than the initial specified value				
				Leakage	e curren	t	Less	ss than or equal to the initial specified value		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.											
The capacitors are kept on a hot plate for 30 seconds, which is Capacitance change Within ±10% of the initial capacitance value									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		nt	Less than or equal to the initial specified value		
Black print on the case top.											
In Z	er 2 minutes' ap ated voltage (V) tan \(\delta\) (max.) Rated v mpedance ratio T / Z20 (max.) e specifications lis en the capacitors rated voltage is a 5°C with the polar er storing the ca use 4.1 at 20°C, e capacitors are intained at 250° uirements listed d restored to 20°	Rated voltage (V) The provided HT / 20 (max.) Rated voltage (V) Rated voltage (V) Rated voltage (V) The provided HT / 20 (max.) Rated voltage (V) The provided HT / 20 (max.) The pro	re 2 minutes' application of rated voltage at a voltage (V) 6.3 10 10 10 10 10 10 10 1	re 2 minutes' application of rated voltage at ated voltage (V) tan δ (max.) Rated voltage (V) mpedance ratio T / Z20 (max.) Z(-25°C) / Z(+20°C) 4 Z(-40°C) / Z(+20°C) 8 e specifications listed at right shall be met en the capacitors are restored to 20°C after rated voltage is applied for 1000 hours at 5°C with the polarity every 250 hours. er storing the capacitors under no load at 10 use 4.1 at 20°C, they shall meet the specific eapacitors are kept on a hot plate for 30 sc intained at 250°C. The capacitors shall meet ulirements listed at right when they are remoded restored to 20°C.	refer 2 minutes' application of rated voltage at 20°C, leaded voltage (V) 6.3 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	er 2 minutes' application of rated voltage at 20°C, leakage of the standard points of the standard points at 20°C, leakage of the standard points of the standa	refer 2 minutes' application of rated voltage at 20°C, leakage current ated voltage (V) 6.3 10 16 2 $\tan \delta (\text{max.})$ 0.24 0.20 0.17 0. Rated voltage (V) 6.3 10 16 $\tan \delta (\text{max.})$ 0.24 0.20 0.17 0. Rated voltage (V) 6.3 10 16 $\tan \delta (\text{max.})$ 2 $\tan \delta (\text{max.})$ 3 $\tan \delta (\text{max.})$ 2 $\tan \delta (\text{max.})$ 3 $\tan \delta (\text{max.})$ 3 $\tan \delta (\text{max.})$ 4 $\tan \delta (\text{max.})$ 5 $\tan \delta (\text{max.})$ 6 $\tan \delta (\text{max.})$ 7 $\tan \delta (\text{max.})$ 8 $\tan \delta (\text{max.})$ 9 $\tan \delta (\text{max.})$ 8 $\tan \delta (\text{max.})$ 9 $\tan \delta (\text{max.})$	Rated voltage (V) 6.3 10 16 25 tan \(\delta\) (max.) 0.24 0.20 0.17 0.17 Rated voltage (V) 6.3 10 16 25 T/Z20 (max.) Z(-25°C) / Z(+20°C) 4 3 2 T/Z20 (max.) Z(-40°C) / Z(+20°C) 8 6 4 T/Z20 (max.) Z(-40°C) / Z(+20°C) 4 3 2 T/Z20 (max.) Z(-40°C) / Z(+20°C) 8 6 4 T/Z20 (max.) Z(-40°C) / Z(+20°C) 8 6 2 T/Z20 (max.) Z(-40°C) / Z(+20°C) 8 6 2 T/Z20 (max.) Z(-40°C) / Z(+20°C) 8 6 3 2 T/Z20 (max.) Z(-40°C) / Z(+20°C) 8 6 2 T/Z20 (max.) Z(-40°C) / Z(+20°C) 4 3 2 T/Z20 (max.) Z(-40°C) / Z(+20°C) / Z(+20°C) 8 6 4 T/Z20 (max.) Z(-40°C) / Z(+20°C) / Z(+20°	rer 2 minutes' application of rated voltage at 20°C, leakage current is not more that the standard voltage (V) 6.3 10 16 25 33 10 16 25 33 10 16 25 33 10 16 25 33 10 16 25 33 10 16 25 33 10 16 25 34 10 16 25 16 10 16 16 25 16 16 16 16 16 16 16 16 16 16 16 16 16	rer 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.05 C Measurement frequency: ated voltage (V)	re 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.05 CV or 10 (μ A Measurement frequency : 120Hz at 20° at 20°C

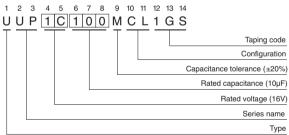
※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

■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 φD×L(mm)	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
(00)	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
(,,,,	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
(12)	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.