

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UP
series

6mmL Chip Type, Bi-Polarized

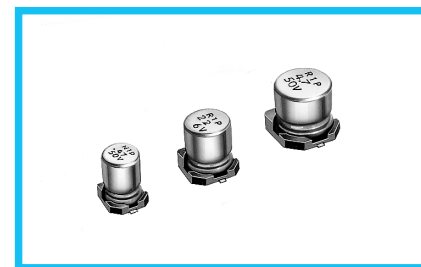
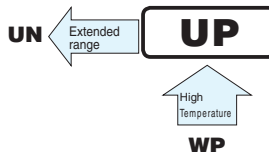


For SMD

Bi-polarized

Anti-Solvent
Feature

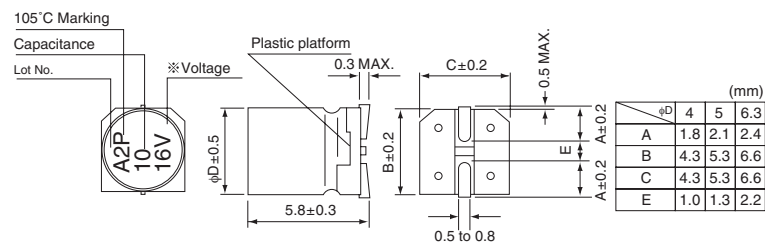
- Chip type, bi-polarized withstanding high temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

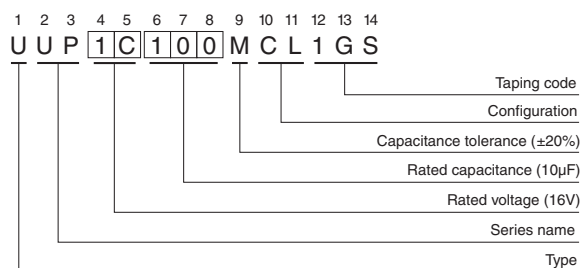
Item	Performance Characteristics						
Category Temperature Range	-55 to +105°C						
Rated Voltage Range	6.3 to 50V						
Rated Capacitance Range	0.1 to 47μF						
Capacitance Tolerance	± 20% at 120Hz, 20°C						
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more 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	35	50
	tan δ (MAX.)	0.24	0.20	0.17	0.17	0.15	0.15
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
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	8	6	4	4	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 1000 hours at 105°C with the polarity every 250 hours.						
	Capacitance change	Within ±20% of the initial capacitance value					
	tan δ	200% or less than the initial specified value					
	Leakage current	Less than or equal to the initial specified 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 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.						
	Capacitance change	Within ±10% of the initial capacitance value					
	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.						

Chip Type



※ Voltage mark for 6.3V is 「6V」

Type numbering system (Example : 16V 10μF)



Dimensions

V		6.3		10		16		25		35		50	
Cap.(μF)	Code	0J		1A		1C		1E		1V		1H	
0.1	0R1											4	1.0
0.22	R22											4	2.0
0.33	R33											4	2.8
0.47	R47											4	4.0
1	010											4	8.4
2.2	2R2									4	8.4	5	13
3.3	3R3							5	12	5	16	5	17
4.7	4R7					4	12	5	16	5	18	6.3	20
10	100			4	17	5	23	6.3	27	6.3	29		
22	220	5	28	6.3	33	6.3	37						
33	330	6.3	37	6.3	41	6.3	49						
47	470	6.3	45										

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

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UN(p.162) series if high CV products are required.
- Please refer to page 3 for the minimum order quantity.

Rated ripple current (mA_{rms}) at 105°C 120Hz

CAT.8100D

Mouser Electronics

Authorized Distributor

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Nichicon:

<u>UUP1A220MCR1GS</u>	<u>UUP1A330MCR1GS</u>	<u>UUP1C100MCR1GS</u>	<u>UUP1C220MCR1GS</u>	<u>UUP1C4R7MCR1GS</u>
<u>UUP1E100MCR1GS</u>	<u>UUP1E4R7MCR1GS</u>	<u>UUP1H010MCR1GS</u>	<u>UUP1H4R7MCR1GS</u>	<u>UUP1V100MCR1GS</u>
<u>UUP1V4R7MCR1GS</u>	<u>UUP1E100MCL1GS</u>	<u>UUP1C220MCL1GS</u>	<u>UUP1E4R7MCL1GS</u>	<u>UUP1H4R7MCL1GS</u>
<u>UUP1V4R7MCL1GS</u>	<u>UUP1V2R2MCR1GS</u>	<u>UUP0J220MCL1GS</u>	<u>UUP0J330MCL1GS</u>	<u>UUP0J470MCL1GS</u>
<u>UUP1A100MCL1GS</u>	<u>UUP1A220MCL1GS</u>	<u>UUP1A330MCL1GS</u>	<u>UUP1C4R7MCL1GS</u>	<u>UUP1C330MCL1GS</u>
<u>UUP1E3R3MCL1GS</u>	<u>UUP1V2R2MCL1GS</u>	<u>UUP1V3R3MCL1GS</u>	<u>UUP1H0R1MCL1GS</u>	<u>UUP1HR22MCL1GS</u>
<u>UUP1HR33MCL1GS</u>	<u>UUP1HR47MCL1GS</u>	<u>UUP1H010MCL1GS</u>	<u>UUP1H2R2MCL1GS</u>	<u>UUP1H3R3MCL1GS</u>
<u>UUP1HR47MCR1GB</u>	<u>UUP1C100MCL1GS</u>	<u>UUP1V100MCL1GS</u>	<u>UUP1HR47MCL1GB</u>	