

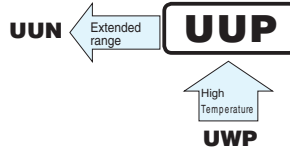
# ALUMINUM ELECTROLYTIC CAPACITORS

# UUP

6mmL Chip Type, Bi-Polarized



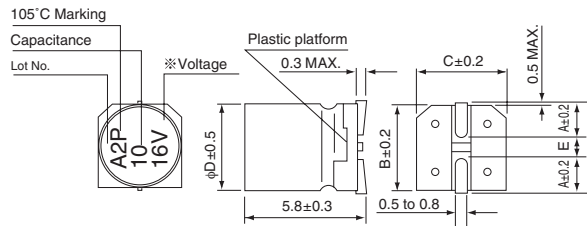
- Chip type, bi-polarized withstanding high temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



## Specifications

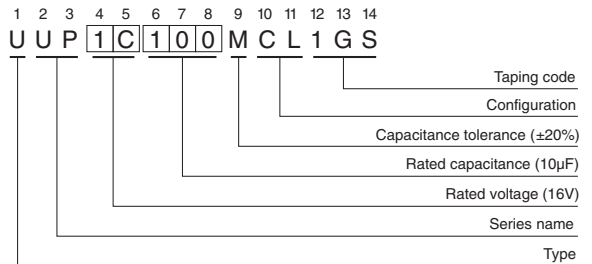
Item	Performance Characteristics								
Category Temperature Range	-55 to +105°C								
Rated Voltage Range	6.3 to 50V								
Rated Capacitance Range	0.1 to 47μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage 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)	6.3	10	16	25	35	50		
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	2	
Endurance	ZT / Z20 (MAX.)		Z-40°C / Z+20°C	8	6	4	4	3	3
	Shelf Life	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					
Resistance to soldering heat	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.		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

Cap.(μF)	Code	6.3		10		16		25		35		50	
		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	16	5	17
4.7	4R7					4	12	5	12	5	16	5	17
10	100			4	17	5	23	5	16	5	18	6.3	20
22	220	5	28	6.3	33	6.3	37	6.3	27	6.3	29		
33	330	6.3	37	6.3	41	6.3	49						
47	470	6.3	45										

Rated ripple current (mA<sub>rms</sub>) at 105°C 120Hz

## 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 UUN(p.178) if high CV products are required.
- Please refer to page 3 for the minimum order quantity.