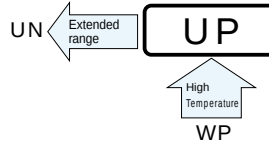


UP 6mmL Chip Type, Bi-Polarized
series



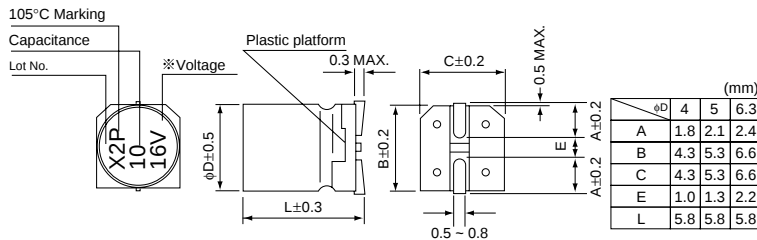
- Chip type, bi-polarized withstanding high temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).



Specifications

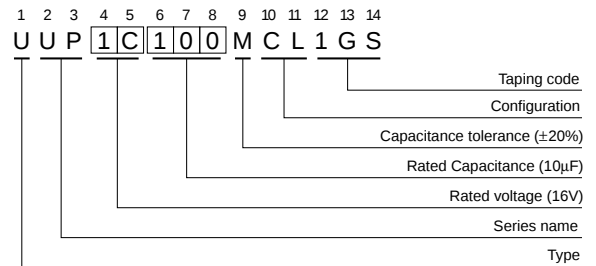
Item	Performance Characteristics							
Category Temperature Range	-55 ~ +105°C							
Rated Voltage Range	6.3 ~ 50V							
Rated Capacitance Range	0.1 ~ 47μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.05 CV or 10 (μA), whichever is greater.							
tan δ	Measurement frequency : 120Hz, Temperature : 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 ZT / Z20 (MAX.)	Z-25°C / Z+20°C	4	3	2	2	2	2
		Z-40°C / Z+20°C	8	6	4	4	3	3
Endurance	After 1000 hours' application of rated voltage at 105°C with the polarity inverted every 250 hours, capacitors meet the characteristic requirements listed at right.			Capacitance change		Within ±20% of initial value		
				tan δ		200% or less of initial specified value		
				Leakage current		Initial specified value or less		
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.							
Resistance to soldering heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.				Capacitance change		Within ±10% of initial value	
					tan δ		Initial specified value or less	
					Leakage current		Initial specified value or less	
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)	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			
33	330	6.3 37	6.3 41			
47	470	6.3 45				

Rated Ripple (mAmps) at 105°C 120Hz

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz~
Coefficient	0.70	1.00	1.17	1.36	1.50

- Taping specifications are given in page 24.
- Recommended land size, soldering by reflow are given in page 25, 26.
- Please select UN(p.77) series if high CV products are required.
- Please refer to page 3 for the minimum order quantity.