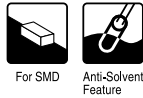
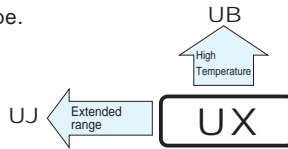


UX series Chip Type, Higher Capacitance Range



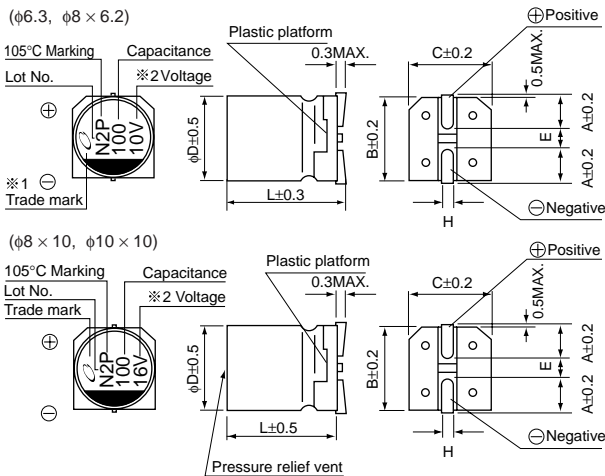
- Chip type, higher capacitance in larger case sizes.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).



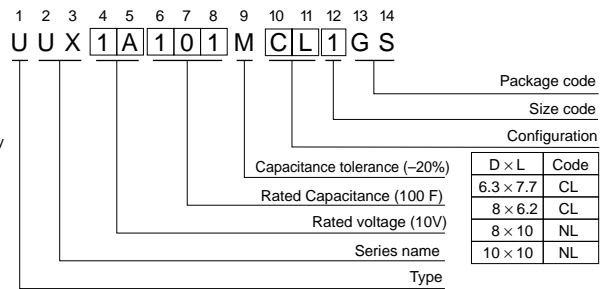
Specifications

Item	Performance Characteristics										
Category Temperature Range	-55 ~ +105°C										
Rated Voltage Range	6.3 ~ 100V										
Rated Capacitance Range	4.7 ~ 1000μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV (μA).										
tan δ	Measurement frequency : 120Hz, Temperature : 20°C										
	Rated voltage (V)	6.3	10	16	25	35	50	63	100		
Stability at Low Temperature	Measurement frequency : 120Hz										
	Rated voltage (V)		6.3	10	16	25	35	50	63	100	
	Impedance ratio ZT / Z20 (MAX.)	Z-55°C / Z+20°C	4	4	3	3	3	2	3	4	
Endurance	After 2000 hours' application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.										
	Capacitance change	Within ±20% of initial value									
	tan δ	200% or less of initial specified value									
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.										
	Capacitance change	Within ±10% of initial value									
	tan δ	Initial specified value or less									
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									
	Leakage current	Initial specified value or less									
Marking	Black print on the case top.										

Chip Type



Type numbering system (Example : 10V 100μF)



φD × L	(mm)			
	6.3 × 7.7	8 × 6.2	8 × 10	10 × 10
A	2.4	3.3	2.9	3.2
B	6.6	8.3	8.3	10.3
C	6.6	8.3	8.3	10.3
E	2.2	2.3	3.1	4.5
L	7.7	6.2	1.0	10
H	0.5 ~ 0.8	0.5 ~ 0.8	0.8 ~ 1.1	0.8 ~ 1.1

Dimensions

Cap.(μF)	Code	V								
		6.3	10	16	25	35	50	63	100	
4.7	4R7	0J	1A	1C	1E	1V	1H	1J	2A	
10	100							8 × 6.2	8 × 6.2	
22	220							51	42	
33	330							8 × 10	75	
47	470							108	180	
100	101		8 × 6.2	90	8 × 6.2	79 (78)	8 × 10	185 (179)	150 (121)	
220	221	○ 8 × 10	161 (121)	173	■ 10 × 10	330 (307)	■ 10 × 10	351 (283)	220	
330	331	8 × 10	288	■ 10 × 10	318 (296)	■ 10 × 10	441 (410)	10 × 10	372	
470	471	■ 10 × 10	340 (316)	■ 10 × 10	351 (326)	10 × 10	489			
680	681	10 × 10	408	10 × 10	392					
1000	102	10 × 10	495							

Size φ6.3 × 7.7 is available for capacitors marked. "○" / Size φ8 × 10 is available for capacitors marked. "■"
 ※ In this case, [6] will be put at 12th digit of type numbering system.

Rated Ripple (mArms) at 105°C 120Hz

Frequency coefficient of rated ripple current

Cap.(μF)	Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz~
~ 47		0.80	1.00	1.15	1.40	1.67
100 ~ 1000		0.85	1.00	1.08	1.20	1.30

- Taping specifications are given in page 24.
- Recommended land size, soldering by reflow are given in page 25, 26.
- Please select UJ(p.76) series if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.