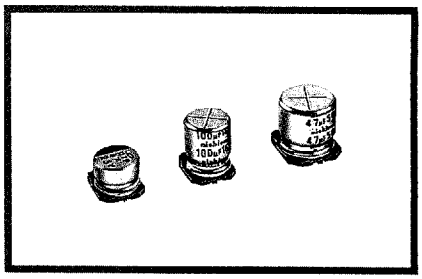
UX Chip Type, Higher Capacitance Range series

For SMD Anti-Solvent Feature

- Chip type, higher capacitance in larger case sizes (φ8, φ10mm) .
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.



UX ← Higher Cap. UT

■Specifications

Item	Performance Characteristics
Operating Temperature Range	−55～+105℃
Voltage Range	6.3～50V
Capacitance Range	22～470μF
Capacitance Tolerance	±20% at 120Hz, 20℃
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℃

Rated voltage (V)	6.3	10	16	25	35	50
tan δ (MAX.)	0.22	0.19	0.16	0.14	0.12	0.10

Stability at Low Temperature — Measurement frequency : 120Hz

Rated voltage (V)		6.3	10	16	25	35	50
Impedance ratio ZT/Z20 (MAX.)	Z−55℃/Z+20℃	4	4	3	3	3	2

Load Life — After 2000 hours' application of rated voltage at 105℃, capacitors meet the characteristics requirements listed at right.

Capacitance change	Within ±20% of initial value
tan δ	200% or less of intial specified value
Leakage current	Initial specified value or less

Shelf Life — After leaving capacitors under no load at 105℃ for 1000 hours, they meet the specified value for load life characteristics listed above.

Resistance to soldering heat — The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristics requirements listed at right.

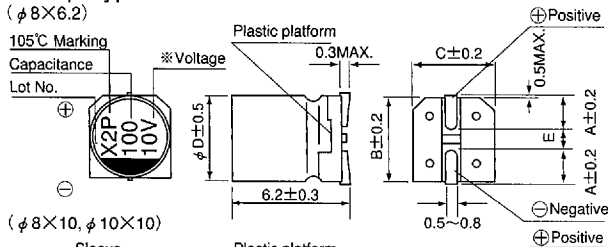
Capacitance change	Within ±10% of initial value
tan δ	Initial specified value or less
Leakage current	Initial specified value or less

Marking — φ8×6.2 : Black print on the case top. φ8×10, φ10×10 : Printed with black color letter on clear yellow sleeve.

Applicable Standards — JIS C-5141 and JIS C-5102.

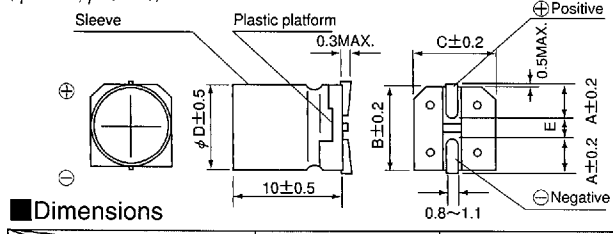
■Chip Type

(φ8×6.2)



※Voltage mark for 6.3V is「6V」.

(φ8×10, φ10×10)



D×L	8×6.2
A	3.3
B	8.3
C	8.3
E	2.3

(mm) (単位:mm)

D×L	8×6.2	8×10	10×10
A	3.3	2.9	3.2
B	8.3	8.3	10.3
C	8.3	8.3	10.3
E	2.3	3.1	4.5

Type numbering system (Example : 16V 100μF)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	U	X	1	C	1	0	1	M	N	T	1	G	S

Taping code

Configuration

D×L	Code
8×6.2	BR
8×10	NT
10×10	NT

Capacitance tolerance (±20%)

Capacitance (100μF)

Rated voltage (16V)

Series name

Type

■Dimensions

D×L(mm)

Cap. (μF) \ V	Code	6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
22	220											8×6.2	67
33	330									8×6.2	76	8×10	133
47	470							8×6.2	79	8×10	124	10×10	180
100	101			8×6.2	90	8×10	148	8×10	181	10×10	304	10×10	310
220	221	8×10	161	8×10	173	10×10	330	10×10	351				
330	331	8×10	288	10×10	318	10×10	441						
470	471	10×10	340	10×10	351							Case size	Allowable ripple

Allowable Ripple (mA rms) at 105℃ 120Hz

●Frequency coefficient of allowable 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
100～470	0.85	1.00	1.08	1.20	1.30

● Taping Specifications are given in page 18.