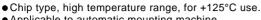
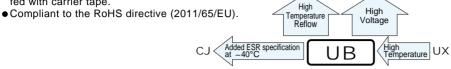


Ex SMD Land life Art Side



 Applicable to automatic mounting machine fed with carrier tape.



WH

LT

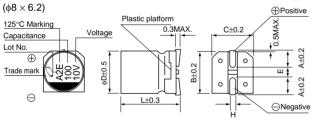


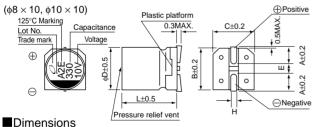
■ Specifications

— - I														
Item	Performance Characteristics													
Category Temperature Range	-40 to +125°C													
Rated Voltage Range	10 to 400V													
Rated Capacitance Range	1 to 330µF													
Capacitance Tolerance	±20% at 120Hz, 20°C													
Leakage Current	Rated voltage (10 to 50								160 to 400			
Leakage Current	Leakage Current			After 1 minute's application of rated voltage, leakage current is not more than 0.03CV (µA).								I = 0.04CV+100 (μA) max.(1 minute's)		
	Measurement frequency : 120Hz at 20°C													
Tangent of loss angle (tan δ)	Rated voltage (V)	10	1	16	25	35	50	160	20	0 25	50	400		
,	tan δ (MAX.)	0.32	0.	.24	0.21	0.18	0.18	0.30	0.3	0.	30	0.30		
	Measurement frequency: 120Hz													
Ot 1 177 1	Rated voltage (V)			10	16	25	35	50	160	200	250	400		
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	40°C / Z+2	20°C	12	8	6	4	4	8	8	8	12		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours (1000 hours for $\phi 8 \times 6.2$) at 125°C. Capacitance change tan δ Leakage current								Within ±30% of the initial capacitance value 300% or less than the initial specified value Less than or equal to the initial specified value					
Shelf Life	After storing the capacitors under no load at 125°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 $\pm 10\%$ of the initial capacitance value $\tan \delta$ Less than or equal to the initial specified value $\tan \delta$ Less than or equal to the initial specified value.							al specified value						
Marking	Black print on the ca	se top.												

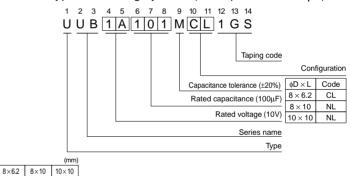
■Chip Type

Cap.(µF





Type numbering system (Example: 10V 100µF)



nensions	[110	obure relief vent				<u> </u>					
	V	1	0	1	6	2		3	5	50	
ıF)	Code	1A		1C		1	E	1V		1H	
10	100									8×6.2	24
22	220									8×6.2	38
33	330							8×6.2	44	8×10	46
47	470					8×6.2	48	8×10	52	10×10	58
100	101	8×6.2	58	8×10	66	8×10	74	10×10	80		
220	221	8×10	90	10×10	102	10×10	116			Case size	Rated
330	331	10×10	112							φD×L(mm)	ripple

3.3 2.9

8.3

2.3

6.2

8.3

8.3

3.1

10

0.5 to 0.8 0.8 to 1.1 0.8 to 1.1

Α

B 8.3

3.2

10.3

4.5

	.,,								
V		160		20	00	2	50	400	
Cap.(µF)	Code	2C		2D		2E		2G	
1	010							8×10	26
1.8	1R8							8×10	27
2.2	2R2							10×10	36
3.3	3R3					8×10	28	10×10	38
4.7	4R7			8×10	36	10×10	59		ļ
6.8	6R8	8×10	42	10×10	59		!	Case size	Rated ripple
10	100	10×10	59	10×10	59			φD×L (mm)	

Rated ripple current (mArms) at 125°C 120Hz

• Frequency coefficient of rated ripple current

Trequency coefficient of fated hippie 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 refer to page 3 for the minimum order quantity.