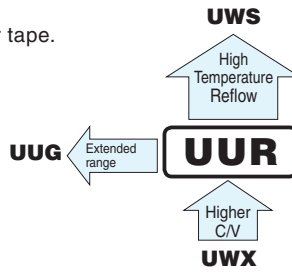


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Chip Type, High CV



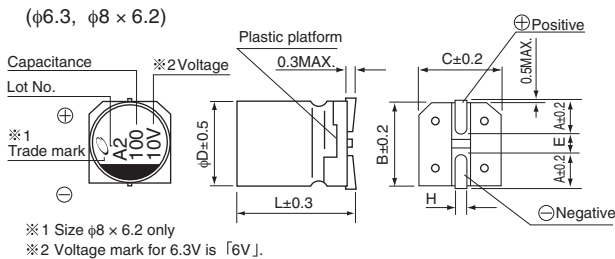
- Chip type, higher capacitance in larger case sizes.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



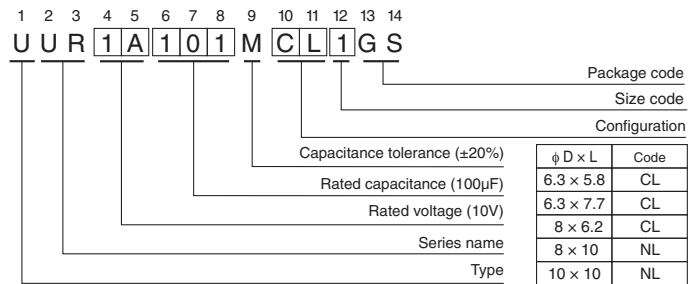
Specifications

Item	Performance Characteristics									
Category Temperature Range	-40 to +85°C									
Rated Voltage Range	4 to 100V									
Rated Capacitance Range	3.3 to 1500μF									
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) .									
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C									
	Rated voltage (V)	4	6.3	10	16	25	35	50	63	100
Stability at Low Temperature	tan δ (MAX.)	0.35	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.12
	Measurement frequency: 120Hz									
	Rated voltage (V)	4	6.3	10	16	25	35	50	63	100
Endurance	Impedance ratio Z-25°C / Z+20°C	7	5	4	3	2	2	2	2	2
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	15	10	8	6	4	3	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 2000 hours at 85°C.									
	Capacitance change	Within ±20% of the initial capacitance value								
	tan δ	200% or less than the initial specified value								
Resistance to soldering heat	Leakage current	Less than or equal to the initial specified value								
	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 ±10% of the initial capacitance value								
Marking	tan δ	Less than or equal to the initial specified value								
	Leakage current	Less than or equal to the initial specified value								
	Black print on the case top.									

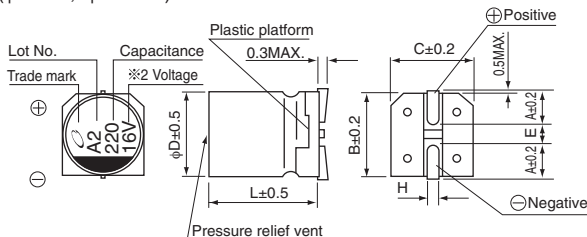
Chip Type



Type numbering system (Example : 10V 100μF)



(φ8 × 10, φ10 × 10)



	(mm)				
φD × L	6.3 × 5.8	6.3 × 7.7	8 × 6.2	8 × 10	10 × 10
A	2.4	2.4	3.3	2.9	3.2
B	6.6	6.6	8.3	8.3	10.3
C	6.6	6.6	8.3	8.3	10.3
E	2.2	2.2	2.3	3.1	4.5
L	5.8	7.7	6.2	10	10
H	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

● Dimension table in next page.

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■ Dimensions

V		4	6.3	10	16	25	35	50	63	100
Cap.(μF)	Code	0G	0J	1A	1C	1E	1V	1H	1J	2A
3.3	3R3									6.3x5.8 29
4.7	4R7								6.3x5.8 31	● 8x6.2 40 (35)
10	100								8x6.2 46	8x10 77
22	220							6.3x5.8 45	8x10 96	8x10 100
33	330						6.3x5.8 55	○ 8x6.2 95 (94)	8x10 117	10x10 130
47	470					6.3x5.8 65	● 8x6.2 105 (94)	○ 8x10 140 (105)	8x10 140	10x10 155
100	101			6.3x5.8 70	8x6.2 125	○ 8x6.2 145 (143)	○ 8x10 175 (132)	■ 10x10 195 (181)	10x10 232	
150	151			6.3x5.8 85	6.3x7.7 151	8x10 192	8x10 214	10x10 238		
220	221		● 8x6.2 160 (143)	○ 8x6.2 175 (173)	○ 8x10 215 (162)	■ 10x10 250 (232)	■ 10x10 265 (246)	10x10 289		
330	331	6.3x5.8 152	○ 8x6.2 190 (188)	8x10 240	8x10 270	■ 10x10 305 (284)	10x10 324			
470	471	6.3x7.7 200	8x10 265	8x10 290	■ 10x10 330 (307)	10x10 393				
680	681	8x10 284	8x10 318	10x10 374	10x10 396					
1000	102	8x10 344	■ 10x10 400 (372)	10x10 454						Case size φD × L (mm)
1500	152	10x10 347	10x10 489							Rated ripple

Size φ6.3 × 5.8 is available for capacitors marked. "●"

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 current (mArms) at 85°C 120Hz

● Frequency coefficient of rated ripple current

Cap.(μF)	Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Less than 47		0.80	1.00	1.15	1.40	1.67
100 to 1500		0.85	1.00	1.08	1.20	1.30

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UUG(p.156) if high CV products are required.
- Please refer to page 3 for the minimum order quantity.