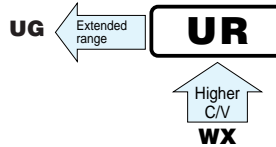


**UR** series Chip Type, High CV



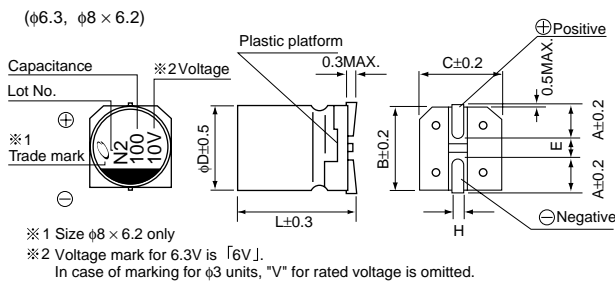
- Chip type, higher capacitance in larger case sizes.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.



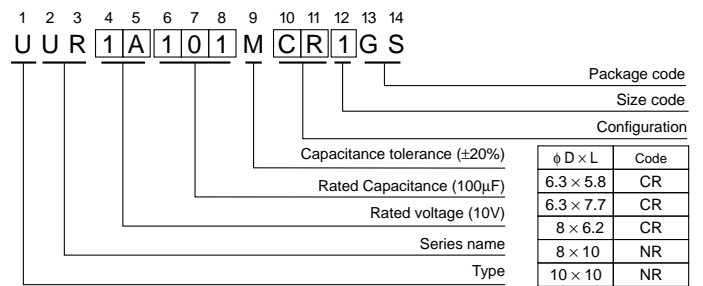
## Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 ~ +85°C										
Rated Voltage Range	4 ~ 100V										
Rated Capacitance Range	3.3 ~ 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).										
tan δ	Measurement frequency : 120Hz, Temperature : 20°C										
	Rated voltage (V)	4	6.3	10	16	25	35	50	63	100	
Stability at Low Temperature	Measurement frequency: 120Hz										
	Rated voltage (V)	4	6.3	10	16	25	35	50	63	100	
	Impedance ratio Z-25°C / Z+20°C	7	5	4	3	2	2	2	2	2	
Endurance	After 2000 hours' application of rated voltage at 85°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 leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for endurance characteristics listed above.					Leakage current					Initial specified value or less
						Capacitance change					Within ±10% of initial value
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.					tan δ					Initial specified value or less
						Leakage current					Initial specified value or less
Marking	Black print on the case top.										

## Chip Type

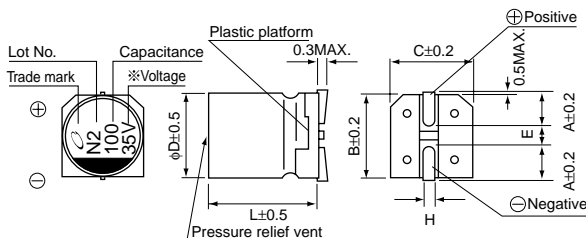


## Type numbering system (Example : 10V 100μF)



- The lead-free product is also available upon request.
- In this case, [L] will be put at 11th digit of type numbering system.
- Size φ8 × 6.2, [CL] will be put at 10th and 11th digit of type numbering system.

(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 ~ 0.8	0.5 ~ 0.8	0.5 ~ 0.8	0.8 ~ 1.1	0.8 ~ 1.1

● Dimension table in next page.



## ■ Dimensions

φ D × L (mm)

Cap.(μF)	Code	V										Case size	Rated ripple				
		4	6.3	10	16	25	35	50	63	100							
		0G	0J	1A	1C	1E	1V	1H	1J	2A							
3.3	3R3											6.3×5.8	29				
4.7	4R7											6.3×5.8	31	● 8×6.2	40 (35)		
10	100											8×6.2	46	8×10	77		
22	220											6.3×5.8	45	8×10	96	8×10	100
33	330							6.3×5.8	55	○ 8×6.2	95 (94)	8×10	117	10×10	130		
47	470					6.3×5.8	65	● 8×6.2	105 (94)	○ 8×10	140 (105)	8×10	140	10×10	155		
100	101			6.3×5.8	70	8×6.2	125	○ 8×6.2	145 (143)	○ 8×10	175 (132)	■ 10×10	195 (181)	10×10	232		
150	151			6.3×5.8	85	6.3×7.7	151	8×10	192	8×10	214	10×10	238				
220	221		● 8×6.2	160 (143)	○ 8×6.2	175 (173)	○ 8×10	215 (162)	■ 10×10	250 (232)	■ 10×10	265 (246)	10×10	289			
330	331	6.3×5.8	152	○ 8×6.2	190 (188)	8×10	240	8×10	270	■ 10×10	305 (284)	10×10	324				
470	471	6.3×7.7	200	8×10	265	8×10	290	■ 10×10	330 (307)	10×10	393						
680	681	8×10	284	8×10	318	10×10	374	10×10	396								
1000	102	8×10	344	■ 10×10	400 (372)	10×10	454										
1500	152	10×10	347	10×10	489												

Rated Ripple (mA rms) at 85°C 120Hz

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.

## ● 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 ~ 1500		0.85	1.00	1.08	1.20	1.30

- Taping specifications are given in page 22.
- Recommended land size are given in page 23
- Please refer to page 3 for the minimum order quantity.