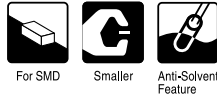
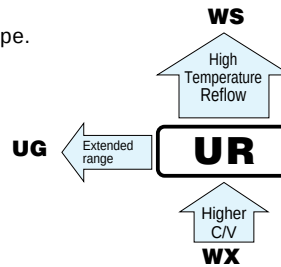


UR series Chip Type, High CV



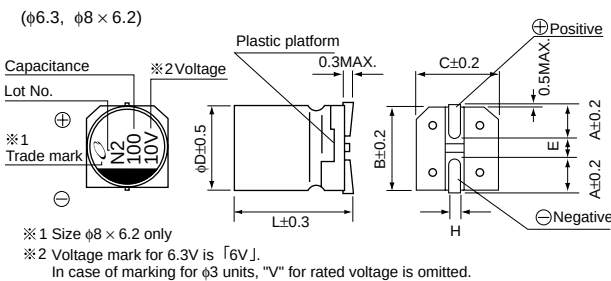
- Chip type, higher capacitance in larger case sizes.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).



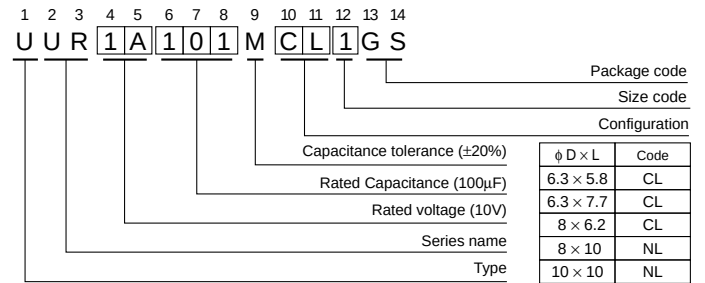
Specifications

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	
	tan δ (MAX.)	0.35	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.12	
Stability at Low Temperature	Measurement frequency: 120Hz										
	Rated voltage (V)		4	6.3	10	16	25	35	50	63	100
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	7	5	4	3	2	2	2	2	2
		Z-40°C / Z+20°C	15	10	8	6	4	3	3	3	3
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			
						Leakage current		Initial specified value or less			
Shelf Life	After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for endurance characteristics listed above.										
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			
						tan δ		Initial specified value or less			
						Leakage current		Initial specified value or less			
Marking	Black print on the case top.										

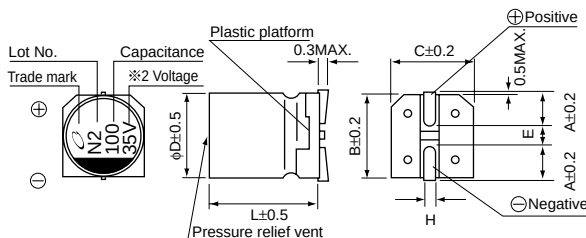
Chip Type



Type numbering system (Example : 10V 100μF)



(φ8 × 10, φ10 × 10)



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)	V Code	4 0G	6.3 0J	10 1A	16 1C	25 1E	35 1V	50 1H	63 1J	100 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							Case size: 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 (mA rms) at 85°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 ~ 1500		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
- Please select UG(p.67) series if high CV products are required.
- Please refer to page 3 for the minimum order quantity.