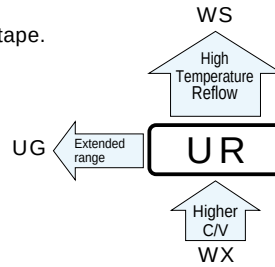


UR series

Chip Type, High CV



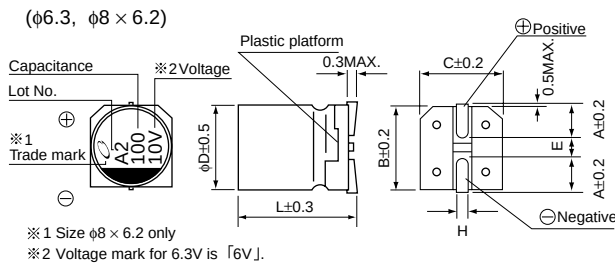
- Chip type, higher capacitance in larger case sizes.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



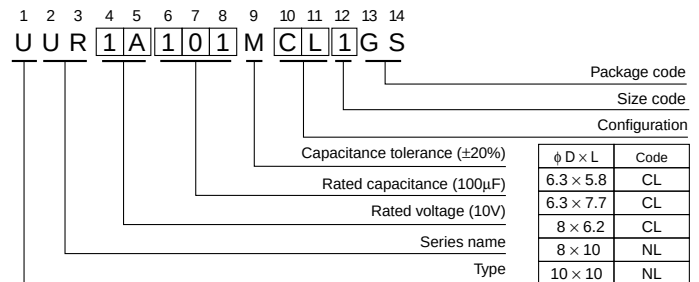
Specifications

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	
	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	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			
						Leakage current		Less than or equal to the initial specified value			
Shelf Life	After storing the capacitors under no load at 85°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 ±10% of the initial capacitance value			
						tan δ		Less than or equal to the initial specified value			
						Leakage current		Less than or equal to the initial specified value			
Marking	Black print on the case top.										

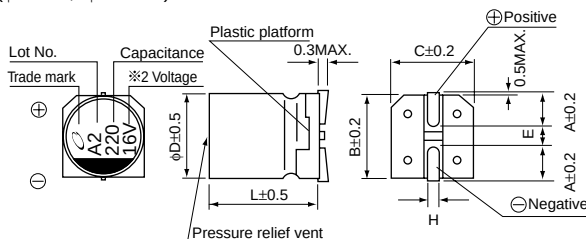
Chip Type



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.

UR series

■Dimensions

Cap.(μF)	Code	V									Case size φD × L (mm)	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
10	100										8×6.2	46
22	220										8×10	77
33	330										8×10	96
47	470										8×10	117
100	101										10×10	130
150	151										10×10	155
220	221										10×10	232
330	331										10×10	232
470	471										10×10	232
680	681										10×10	232
1000	102										10×10	232
1500	152										10×10	232

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 (mA) 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 UG(p.162) series if high CV products are required.
- Please refer to page 3 for the minimum order quantity.