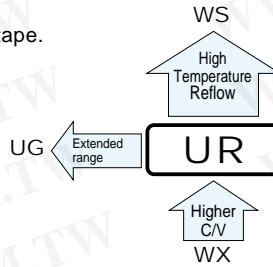


UR series Chip Type, High CV



- 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 (2002/95/EC).

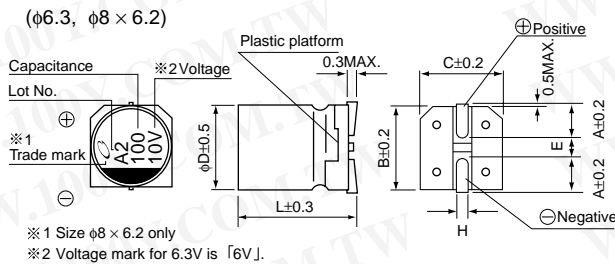
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



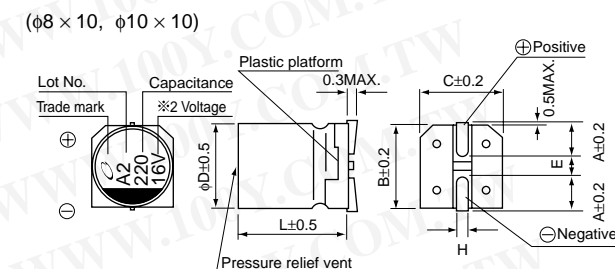
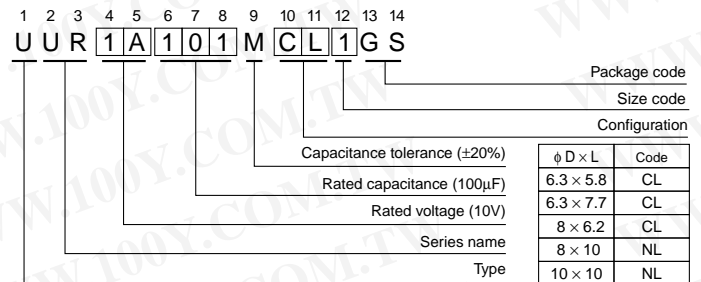
Specifications

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	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																																		
	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.		<table border="1"> <tr> <td>Capacitance change</td> <td colspan="10">Within ±20% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td colspan="10">200% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="10">Less than or equal to the initial specified value</td> </tr> </table>									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									
	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																																											
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.		<table border="1"> <tr> <td>Capacitance change</td> <td colspan="10">Within ±10% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td colspan="10">Less than or equal to the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="10">Less than or equal to the initial specified value</td> </tr> </table>									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									
	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)



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.

■ Dimensions

Cap.(μF)	Code	V										Case size φD × L (mm)	Rated ripple				
		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												

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 rms) 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.114) series if high CV products are required.
- Please refer to page 3 for the minimum order quantity.

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)