

**UWX**

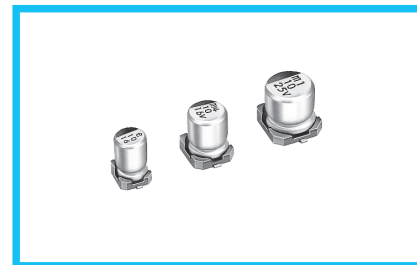
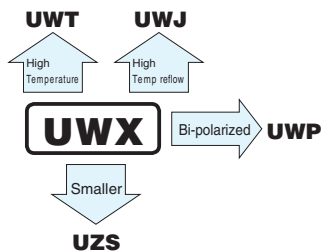
5.5mmL Chip Type



For SMD

Anti-Solvent  
Feature

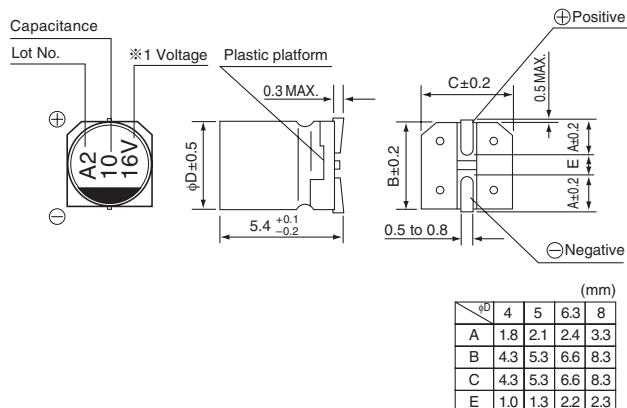
- Chip type with 5.5mm height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Load life of 2000 hours at 85°C.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



## Specifications

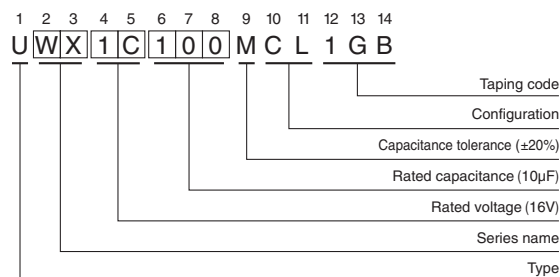
Item	Performance Characteristics								
Category Temperature Range	−40 to +85°C								
Rated Voltage Range	4 to 50V								
Rated Capacitance Range	1 to 330μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 (μA) ,whichever is greater.								
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C								
	Rated voltage (V)	4	6.3	10	16	25	35	50	
	tan δ (MAX.)	0.35 (0.40)	0.26 (0.30)	0.20 (0.24)	0.16 (0.19)	0.14 (0.16)	0.12 (0.14)	0.12 (0.14)	
Values in ( ) applicable to WR.									
Stability at Low Temperature	Measurement frequency : 120Hz								
	Rated voltage (V)		4	6.3	10	16	25	35	50
	Impedance ratio	Z−25°C / Z+20°C	7	4	3	2	2	2	2
	ZT / Z20 (MAX.)	Z−40°C / Z+20°C	15	8	8	4	4	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 (Within ±25% for 4 V and WR series units)		
					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



※ 1. Voltage mark for 6.3V is 「6V」.

## Type numbering system (Example : 16V 10μF)



UWX

## ■ Dimensions

V		4		6.3		10		16		25		35		50	
Cap. (μF)	Code	0G		0J		1A		1C		1E		1V		1H	
1	010													4	8.4
2.2	2R2													4	13
3.3	3R3													4	17
4.7	4R7									4	16	4	18	•5	20 (18)
10	100							4	23	•5	27 (24)	•5	29 (24)	○6.3	33 (30)
22	220			4	28	•5	33 (30)	•5	37 (30)	○6.3	42 (38)	○6.3	46 (39)	□8	52 (43)
33	330	4	28	•5	37 (34)	•5	41 (34)	○6.3	49 (44)	○6.3	52 (46)	□8	62 (53)	8	71
47	470	4	33	•5	45 (40)	○6.3	52 (47)	○6.3	58 (52)	□8	70 (60)	8	80		
56	560	5	42	○6.3	52 (46)	○6.3	57 (50)	○6.3	63 (57)	□8	76 (65)				
100	101	5	56	○6.3	70 (47)	○6.3	76 (54)	6.3	86	8	110				
150	151	6.3	79	6.3	71	□8	111 (76)								
220	221	6.3	96	□8	110 (74)	8	135								
330	331	8	145	8	170									Case size φD (mm)	Rated ripple

Size φ4 is available for capacitors marked. " • " " } In such a case,  $\overline{W/R}$  will be put at 2nd and 3rd digit of  
 Size φ5 is available for capacitors marked. " ○ " } type numbering system.  
 Size φ6.3 is available for capacitors marked. " □ " }

Rated ripple current (mA<sub>rms</sub>) at 85°C 120Hz  
 ( ) = UWR

## ● Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.70	1.00	1.17	1.36	1.50

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UUR(p.168), UUG(p.174) if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.

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