

UWX

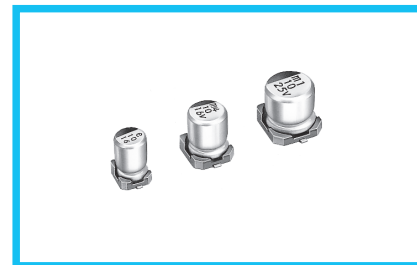
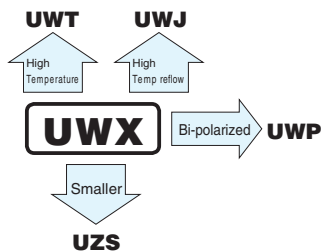
5.5mmL Chip Type



For SMD

Anti-Solvent
Feature

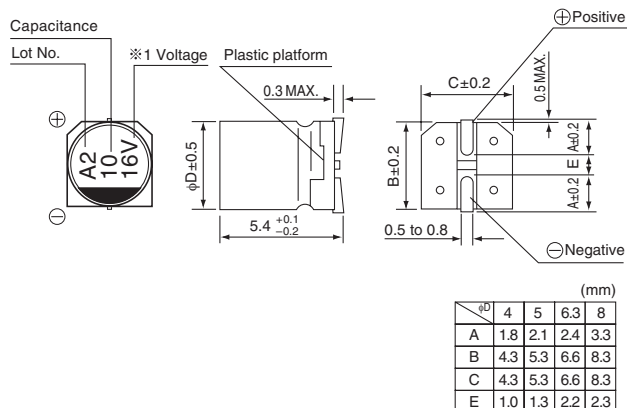
- Chip type with 5.5mm height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Load life of 2000 hours at 85°C.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



Specifications

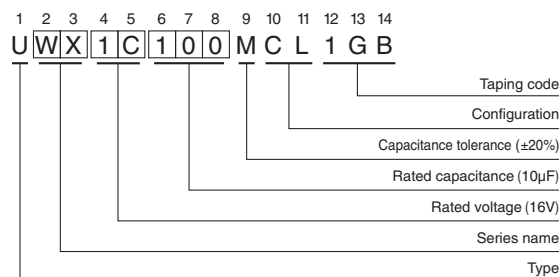
Item	Performance Characteristics								
Category Temperature Range	−40 to +85°C								
Rated Voltage Range	4 to 50V								
Rated Capacitance Range	1 to 330μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current 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_{rms}) 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.