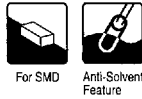
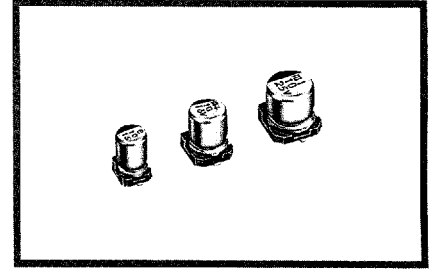
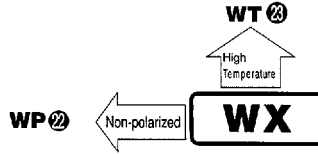


## WX series 5.5mmL Chip Type



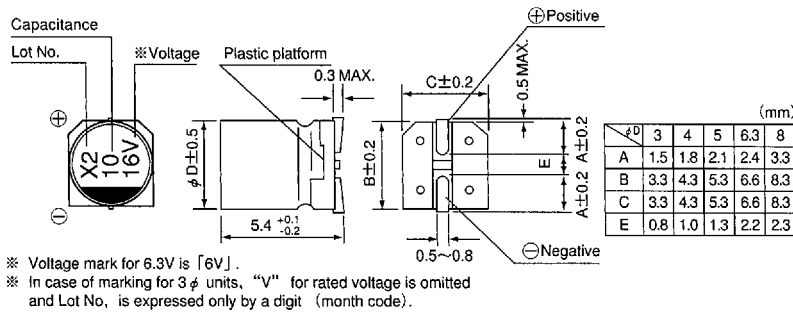
- Chip type with 5.5mm height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- Load life of 2000 hours at 85°C.



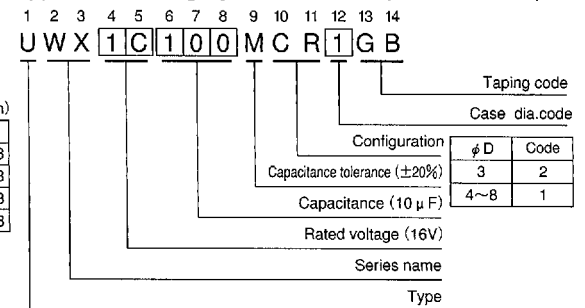
### Specifications

Item	Performance Characteristics																							
Operating Temperature Range	-40~+85°C																							
Voltage Range	4~50V																							
Capacitance Range	0.1~330 μF																							
Capacitance Tolerance	±20% at 120Hz, 20°C																							
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.																							
tan δ	Measurement frequency : 120Hz, Temperature : 20°C																							
	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tan δ (MAX.)</td> <td>0.35(0.40)</td> <td>0.26(0.30)</td> <td>0.20(0.24)</td> <td>0.16(0.19)</td> <td>0.14(0.16)</td> <td>0.12(0.14)</td> <td>0.12(0.14)</td> </tr> </table> Values in ( ) applicable to φ3 case size.	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)							
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)																	
Stability at Low Temperature	Measurement frequency : 120Hz																							
	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Impedance ratio Z-25°C/Z+20°C</td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>ZT/Z20 (MAX.)</td> <td>15</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	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.)	15	8	8	4	4	3
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.)	15	8	8	4	4	3	3																	
Load Life	After 2000 hours' application of rated voltage at 85°C, capacitors meet the characteristics requirements listed at right. <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of initial value (Within ±25% for 4 V and φ3 units)</td> </tr> <tr> <td>tan δ</td> <td>200% or less of initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within ±20% of initial value (Within ±25% for 4 V and φ3 units)	tan δ	200% or less of initial specified value	Leakage Current	Initial specified value or less																	
Capacitance change	Within ±20% of initial value (Within ±25% for 4 V and φ3 units)																							
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 load life 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 characteristics requirements listed at right. <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±10% of initial value</td> </tr> <tr> <td>tan δ</td> <td>Initial specified value or less</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within ±10% of initial value	tan δ	Initial specified value or less	Leakage current	Initial specified value or less																	
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.																							
Applicable Standards	JIS C-5141 and JIS C-5102.																							

### Chip Type



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



### Dimensions

Cap. (μF)	Code	4		6.3		10		16		25		35		50	
		0G	0J	1A	1C	1E	1V	1H							
0.1	0R1													4(3)	1.0
0.22	R22													4(3)	2.0
0.33	R33													4(3)	2.8
0.47	R47													4(3)	4.0
1	010													4(3)	8.4(8.0)
2.2	2R2											3	8.4	4(3)	13(10)
3.3	3R3											3	10	4	17
4.7	4R7											4	18	5	20
10	100							4(3)	23(18)	5	27	5	29	6.3	33
22	220	3	19	4(3)	28(21)	5	33	5	37	6.3	42	6.3	46	8	52
33	330	4	28	5	37	5	41	6.3	49	6.3	52	8	62	8	71
47	470	4	33	5	45	6.3	52	6.3	58	8	70	8	80		
100	101	5	56	6.3	70	6.3	76	6.3	86	8	95				
220	221	6.3	96	8	110	8	135								
330	331	8	145	8	170										

( ) is also available with φ3mm upon request.

● Taping Specifications are given in page 18.