

## UWX

5.5mmL Chip Type



- 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								Values in ( ) applicable to WR.																												
	Rated voltage (V)	4	6.3	10	16	25	35	50																													
Stability at Low Temperature	Measurement frequency : 120Hz																																				
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C		7	4	3	2	2		2																											
		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.		<table border="1"> <tr> <td>Capacitance change</td> <td colspan="8">Within ±20% of the initial capacitance value (Within ±25% for 4 V and WR series units)</td> </tr> <tr> <td>tan δ</td> <td colspan="8">200% or less than the initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td colspan="8">Less than or equal to the initial specified value</td> </tr> </table>								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							
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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.		<table border="1"> <tr> <td>Capacitance change</td> <td colspan="8">Within ±10% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td colspan="8">Less than or equal to the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="8">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							
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Marking	Black print on the case top.																																				

### Chip Type



※1. Voltage mark for 6.3V is 「6V」.

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



● Dimension table in next page.

## UWX

### ■ Dimensions

Cap. (μF)	Code	V		4		6.3		10		16		25		35		50	
		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												

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

Rated ripple current (mArms) 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.

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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