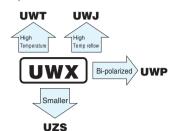


5.5mmL Chip Type



- 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).
- AEC-Q200 compliant. Please contact us for details.

Values marked with an \* in the dimension table are scheduled to be discontinued and are not recommended for new designs.

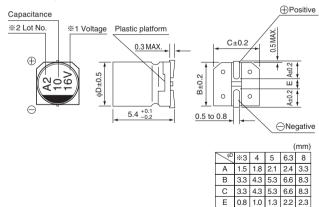




#### ■Specifications

•						•							
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.												
	Measurement frequency: 120Hz at 20°C												
Tangent of loss angle (tan $\delta$ )	Rated voltage (V)	4	6.3	10		16	2	5	35	50			
, , ,	tan δ (MAX.)	0.35 (0.40)	0.26 (0.30)	0.20 (0.2	4) (	0.16 (0.19)	0.14 (	0.16) (	0.12 (0.14)	0.12 (0.1	14)	Values in (	( ) applicable to WR, φ3 case size.
	Measurement frequency : 120Hz												
	Rated voltage (V)			4	6.3	3 1	0	16	25		35	50	
Stability at Low Temperature	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.									nitial capacitance value (Within ±25% for 4 V and \$\phi 3,WR series units) than the initial specified value			
Endurance							Curre	ent	·				
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.									ial to the initial specified value			
Marking	Black print on the case top.												

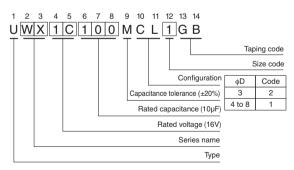
### ■Chip Type



% 1. Voltage mark for 6.3V is 「6V」.
In case of marking for φ3 units, "V" for rated voltage is omitted.

※2. In case of marking for φ3 units, Lot No.is expressed by a digit (month code).

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



ullet In the case of size  $\phi 3$  in ( ),parentheses, use WX in the 2nd and 3rd 2 digit and put a in the 12th digit of type numbering system.

Rated ripple current (mArms) at 85°C 120Hz

( ) =  $\phi$ 3 units and UWR



#### ■ Dimensions

V		v <b>4</b>		6.3		10		16		25		35		50	
Cap. (µF)	Code	0	G	0J		1A		1C		1E		1V		1H	
1	010				i				 				 	4 (*3)	8.4(8.0)
2.2	2R2						1		i I			*3	8.4	4 (*3)	13 (10)
3.3	3R3						1					*3	10	4	17
4.7	4R7						-		l I	4 (*3)	16 (12)	4	18	•5	20 (18)
10	100						İ	4 (*3)	23 (18)	•5	27 (24)	•5	29 (24)	∘6.3	33 (30)
22	220	*3	19	4 (*3)	28 (21)	• 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		İ		
150	151	6.3	79	6.3	71	□8	111 (76)						l I		1
220	221	6.3	96	□8	110 (74)	8	135		i I				i I		Rated
330	331	8	145	8	170		1		 				 	φD (mm)	ripple

<sup>( )</sup> is also available with φ3mm upon request.

 $(\divideontimes3)_{\,:\,\varphi3}\,$  In such a case,  $\,$   $\boxed{2}$  will be put at 12th digit of type numbering system.

Size  $\varphi 4$  is available for capacitors marked. "  $^{\circ}$  " Size  $\varphi 5$  is available for capacitors marked. "  $^{\circ}$  " Size  $\varphi 6.3$  is available for capacitors marked. "  $^{\Box}$  "  $^{\Box}$  "

In such a case, WR will be put at 2nd and 3rd digit of type numbering system.

• 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.156), UUG(p.162) if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity.

<sup>\*\*</sup> However, φ3 which are scheduled to be discontinued. Not recommended for new designs.

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

# Nichicon:

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UWT1V4R7MCL1GB UWX0G101MCL1GB UWX0G101MCR1GB UWX0G220MCL2GB UWX0G220MCR2GB
UWX0G221MCL1GB UWX0G221MCR1GB UWX0G330MCL1GB UWX0G330MCR1GB UWX0G331MCR1GB
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