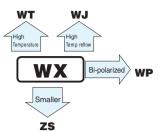
ALUMINUM ELECTROLYTIC CAPACITORS





- 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).

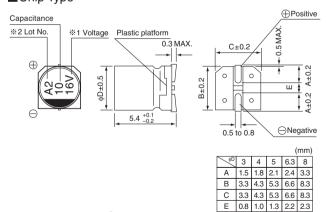




■Specifications

Item	Performance Characteristics												
Category Temperature Range	-40 to +85°C												
Rated Voltage Range	4 to 50V												
Rated Capacitance Range	0.1 to 330μF												
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.												
	Measurement frequency: 120Hz at 20°C												
Tangent of loss angle (tan δ)	Rated voltage (V) 4	6.3	10		16	25	5	35	50				
, , , , , , , , , , , , , , , , , , , ,	tan δ (MAX.) 0.35 (0.4	0.26 (0.30)	0.20 (0.	24) 0.1	6 (0.19)	0.14 (0).16)	0.12 (0.14)	0.12 (0	.14)	Values in () applicable to WR, φ3 case size.	
	Measurement frequency : 120Hz												
Stability at Low Temperature	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		
	The specifications listed a	ance ch	hange Within ±20% of the initial capacitance value (Within ±25% for 4 V and 63,WR series units)					hin +25% for 4 V and +3 WR series units)					
Endurance	when the capacitors are restored to 20°C after									or less than the initial specified value			
Endurance	the rated voltage is applied for 2000 hours at									qual 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	The capacitors are kept or	Cana	Capacitance change Within ±10% of the initial capacitance			the initial canacitance value							
	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.							tan δ			Less than or equal to the initial specified value		
heat											ess than or equal to the initial specified value		
Marking	Black print on the case top	·											

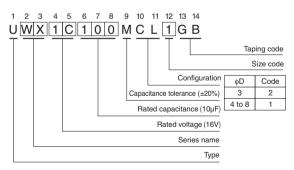
■Chip Type



**1. Voltage mark for 6.3V is Γ6V].
In case of marking for φ3 units, "V" for rated voltage is omitted.

% 2. In case of marking for ϕ 3 units, Lot No.is expressed by a digit (month code).

Type numbering system (Example: 16V 10µF)



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



■ Dimensions

V 4		1	6.3		10		16		25		35		50		
Cap. (µF)	Code	0	G	0	J	1	1A	1	С	1	E	1	V	1	Н
0.1	0R1		 				i		 					4 (3)	1.0
0.22	R22								l I					4 (3)	2.0
0.33	R33				i				 					4 (3)	2.8
0.47	R47		 				1		!		!		-	4 (3)	4.0
1	010				i				l I		i I		İ	4 (3)	8.4(8.0)
2.2	2R2		 		 		-		 			3	8.4	4 (3)	13 (10)
3.3	3R3		i i		i I		İ		i I		i I	3	10	4	17
4.7	4R7									4 (3)	16 (12)	4	18	• 5	20 (18)
10	100				i I			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		I		
150	151	6.3	79	6.3	71	□8	111 (76)			•					
220	221	6.3	96	□ 8	110 (74)	8	135		i I		i I		-	Case size	Rated
330	331	8	145	8	170									φD (mm)	ripple

^() is also available with φ3mm upon request.

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

() = φ3 units and WR Series • In the case of size φ3 in (),parentheses, use WX at 2nd and 3rd digit and put 2 at the 12th digit of type numbering system.

Size $\phi 4$ is available for capacitors marked. " • " Size $\phi 5$ is available for capacitors marked. " • "

Size $\phi 6.3$ is available for capacitors marked. " \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 UR(p.150), UG(p.158) series if high C/V products are regired.
- Please refer to page 3 for the minimum order quantity.

Mouser Electronics

Authorized Distributor

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

Nichicon:

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UWX0G101MCR1GB UWX0G220MCR2GB UWX0G221MCR1GB UWX0G330MCR1GB UWX0G331MCR1GB
UWX0G470MCR1GB UWX0J101MCR1GB UWX0J220MCR1GB UWX0J220MCR2GB UWX0J221MCR1GB
UWX0J330MCR1GB UWX0J331MCR1GB UWX0J470MCR1GB UWX1A101MCR1GB UWX1A220MCR1GB
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UWX1HR47MCR2GB UWX1V100MCR1GB UWX1V220MCR1GB UWX1V2R2MCR2GB UWX1V330MCR1GB
UWX1V3R3MCR2GB UWX1V470MCR1GB UWX1V4R7MCR1GB UWX1V2R2MCR2GB UWX1V330MCR1GB
UWX1V3R3MCR2GB UWX1V470MCR1GB UWX1V4R7MCR1GB UWX1V2R2MCR2GB UWX1C100MCR1MB
UWX1E100MCR1GB-X UWR0J560MCL1GB UWR1C560MCL1GB
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