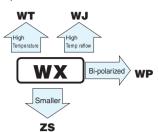
ALUMINUM ELECTROLYTIC CAPACITORS





- 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).

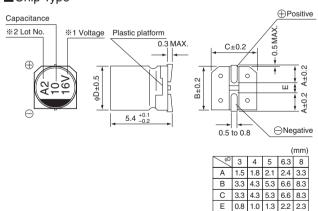




■Specifications

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	1	-	25	_	35	50			
	tan δ (MAX.) 0.35 (0	40) 0.26 (0.	30) 0	0.20 (0.24	1) 0.16 (0.19)	0.14 (0	0.16) 0.	12 (0.14)	0.12 (0.14)	Values in () applicable to WR, φ3 case size
	Measurement frequency : 120Hz												
Chalcilia at Laur Tarana anti-ma	Rated voltage (4	6.3	1	0	16	25	35	5	50	
Stability at Low Temperature	impodanoo rano	C / Z+20°C		7	4	_	3	2	2	2	_	2	
	ZT / Z20 (MAX.) Z-40	C / Z+20°C	1	5	8	8	3	4	4	3		3	
	The specifications listed at right shall be met							change Within ±20% of the initial capacitance value (Within ±25% for 4 V and \(\phi 3, WR \) series					hin ±25% for 4 V and ϕ 3,WR series units)
Endurance	when the capacitors are						200% or less than the initial specified value						
	the rated voltage is applied for 2000 hours at 85°C.							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.				is	Capacitance change tan δ Leakage current			Within ±10% of the initial capacitance value Less than or equal to the initial specified value Less than or equal to the initial specified value				
Marking	Black print on the case top.												

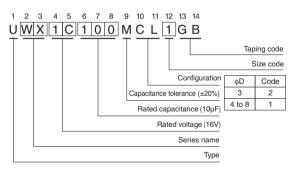
■Chip Type



- **1. Voltage mark for 6.3V is 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		6.3		10		16		25		35		50	
Cap. (µF)	Code	0G		0J		1A		1C		1E		1V		1H	
0.1	0R1		 						 					4 (3)	1.0
0.22	R22		i I						l I				1	4 (3)	2.0
0.33	R33		 						 					4 (3)	2.8
0.47	R47		!		!		1		!		!		1	4 (3)	4.0
1	010		İ						l I		i I			4 (3)	8.4(8.0)
2.2	2R2		 		I I		-		 			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)				1
100	101	5	56	∘ 6.3	70 (47)	∘ 6.3	76 (54)	6.3	86	8	110				i 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								İ	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

1	Fraguenas	5011	40011	00011	4111	40.111		
ı	Frequency	50 Hz	120 HZ	300 Hz	1 kHz	10 kHz or more		
I	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:

```
UWX0G101MCL1GB UWX0G220MCL2GB UWX0G221MCL1GB UWX0G330MCL1GB UWX0G470MCL1GB
UWX0J101MCL1GB UWX0J220MCL1GB UWX0J220MCL2GB UWX0J221MCL1GB UWX0J330MCL1GB
UWX0J331MCL1GB UWX0J470MCL1GB UWX1A101MCL1GB UWX1A220MCL1GB UWX1A221MCL1GB
UWX1A330MCL1GB UWX1A470MCL1GB UWX1C100MCL1GB UWX1C100MCL2GB UWX1C101MCL1GB
UWX1C220MCL1GB UWX1C330MCL1GB UWX1C470MCL1GB UWX1E100MCL1GB UWX1E101MCL1GB
UWX1E220MCL1GB UWX1E330MCL1GB UWX1E470MCL1GB UWX1E4R7MCL1GB UWX1E4R7MCL2GB
UWX1H010MCL1GB UWX1H010MCL2GB UWX1H0R1MCL1GB UWX1H0R1MCL2GB UWX1H100MCL1GB
UWX1H220MCL1GB UWX1H2R2MCL1GB UWX1H2R2MCL2GB UWX1H330MCL1GB UWX1H3R3MCL1GB
UWX1H4R7MCL1GB UWX1HR22MCL1GB UWX1HR22MCL2GB UWX1HR33MCL1GB UWX1HR33MCL2GB
UWX1HR47MCL1GB UWX1HR47MCL2GB UWX1V100MCL1GB UWX1V220MCL1GB UWX1V2R2MCL2GB
UWX1V330MCL1GB UWX1V3R3MCL2GB UWX1V470MCL1GB UWX1V4R7MCL1GB UWR1E220MCL1GB
UWX1C100MCL1MB UWX1C470MCL1MB UWX0G560MCL1GB UWX0G151MCL1GB UWX0G331MCL1GB
UWX0J560MCL1GB UWX0J151MCL1GB UWX1A560MCL1GB UWX1A151MCL1GB UWX1E560MCL1GB
UWR1A470MCL1GB UWX1H100MCL1MB UWX1C560MCL1GB UWX1C101MCL1MB UWX1V4R7MCL2GB
UWX1E330MCL1MB UWX1H4R7MCL5MB UWR1C470MCL1GB UWR1E100MCL1GB UWR1H220MCL1GB
UWR0J470MCL1GB UWR1V100MCL1GB UWR0J101MCL1GB UWR0J221MCL1GB UWR0J330MCL1GB
UWR1A101MCL1GB UWR1A151MCL1GB UWR1A220MCL1GB UWR1A330MCL1GB UWR1A560MCL1GB
UWR1C220MCL1GB UWR1C330MCL1GB UWR1E330MCL1GB UWR1E470MCL1GB UWR1E560MCL1GB
UWR1H100MCL1GB UWR1H4R7MCL1GB UWR1V220MCL1GB UWR1V330MCL1GB
```