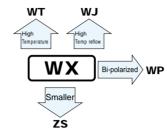
ALUMINUM ELECTROLYTIC CAPACITORS

nichicon





- 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 (2002/95/EC).

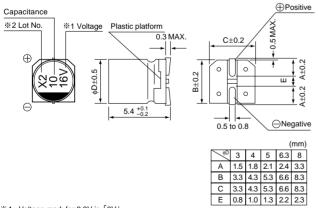




Specifications

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, Temperature : 20°C													
Tangent of loss angle (tan δ)	Rated voltage (V) 4 6.		6.3	10		16	25	5	35	50				
	tan δ (MAX.)	0.35 (0.40)	0.26 (0.30)	0.20 (0.	24) (0.16 (0.19)	0.14 (0	0.16) 0.1	2 (0.14)	0.12 (0.14)	Values in (() applicable to WR, ¢3 case s	
	Measurement frequency : 120Hz													
	Rated vo	ltage (V)		4	6.3	3 '	0	16	25	35	5	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		
	The specifications listed at right shall be met Capacitance change Within ±20% of the initial capacitance value (Within ±25% for 4 V and 43.WR series units)													
Endurance	when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at										s than the initial specified value			
Lindulance							Leakage Current Less than or equal to the initial specified value							
	85°C.													
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 on a hot plate for 30 seconds, which is								Capacitance change Within ±10% of the initial capacitance 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								Leakage current			Less than or equal to the initial specified value			
Marking	Black print on the	•		0.										
Marking	Diaok print on the	cuse top.												

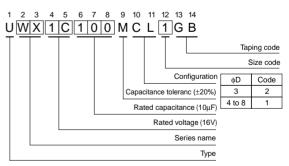
Chip Type



※1. Voltage mark for 6.3V is [6V].

In case of marking for \$3 units, "V" for rated voltage is omitted.
2. In case of marking for \$3 units, Lot No.is expressed by a digit (month code).

Type numbering system (Example : 16V 10µF)



 \bullet 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.



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Dimensions

	V 4		4	6.3		10		16		25		35		50	
Сар. (µF)	Code	0	G	C)J	1A		1C		1E		1V		1H	
0.1	0R1		1											4 (3)	1.0
0.22	R22		1								_			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 (3)	16 (12)	4	18	• 5	20 (18)
10	100							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)	o 6.3	46 (39)	□8	52 (43)
33	330	4	28	• 5	37 (34)	• 5	41 (34)	° 6.3	49 (44)	o 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	o 6.3	52 (46)	° 6.3	57 (50)	o 6.3	63 (57)	□ 8	76 (65)				
100	101	5	56	o 6.3	70 (47)	o 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							Case size ¢ D (mm)	Rated
330	331	8	145	8	170										ripple

() is also available with ${\phi}3mm$ upon request.

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

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

Size $\phi4$ is available for capacitors marked. " \bullet " Size $\phi5$ is available for capacitors marked. " \circ " Size $\phi6.3$ 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.94), UG(p.100) series if high C/V

products are reqired.

• Please refer to page 3 for the minimum order quantity.