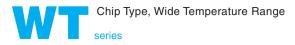
## **ALUMINUM ELECTROLYTIC CAPACITORS**





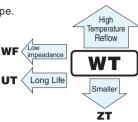
WZ

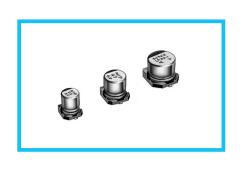
• Chip type operating over wide temperature range of to −55 to +105°C.

• Designed for surface mounting on high density PC board.

• Applicable to automatic mounting machine fed with carrier tape.

• Compliant to the RoHS directive (2011/65/EU).

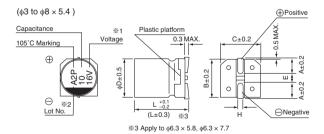


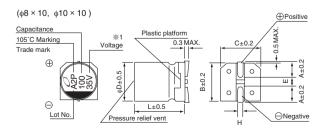


#### ■Specifications

Item	Performance Characteristics												
Category Temperature Range	−55 to +105°C												
Rated Voltage Range	4 to 50V												
Rated Capacitance Range	0.1 to 1500μF												
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 $\delta$ )	Rated voltage (V)	4	6.3		10	16		25	3	5	50		
- ,	tan δ (MAX.)	0.40	0.30	(	).24	0.20	)	0.16	0.	14	0.14		
	Measurement frequency : 120Hz												
Otaliin alla Tamana	Rated voltage (V)			4	6.3	1	0	16	25	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C /	Z+20°C	7	4	3	3	2	2	2	2		
	ZT / Z20 (MAX.)	Z-40°C /	Z+20°C	15	8	8	3	4	4	3	3	]	
Endurance	The specifications I met when the capa 20°C after the rated 1000 hours at 105°	Capacitance Within $\pm 25\%$ of the initial capacitance value for capacitors of $\phi \Im mm$ unit, and 16V or less. Change Within $\pm 20\%$ of the initial capacitance value for capacitors of 25V or more. It is a constant of the initial specified value Leakage current Less than or equal to the initial specified value											
Shelf Life	After storing the capacitors under no load at 105°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.												
D	The capacitors are kept on a hot plate for 30 se							Capacitance change		Within ±10% of the initial capacitance value			
Resistance to soldering heat	is maintained at 25 characteristic requi				ta	an δ	Less than or equal to the initial specified value						
noat	removed from the p	liley are			Leakage current Less than or equal to the initial specified value					ified value			
Marking	Black print on the c	ase top.											

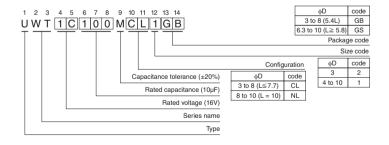
## ■Chip Type





- ※1. Voltage mark for 6.3V is 「6V]. In case of marking for φ3 units, "V" for rated voltage is omitted.
- voltage is omitted. \*2. In case of marking for \$\phi\$ units. Lot No is expressed by a digit (month code).

## Type numbering system (Example : $16V 10\mu F$ )



									(mm)
φD×L	3 × 5.4	4 × 5.4	5 × 5.4	6.3 × 5.4	6.3 × 5.8	6.3 × 7.7	8 × 5.4	8 × 10	10 × 10
Α	1.5	1.8	2.1	2.4	2.4	2.4	3.3	2.9	3.2
В	3.3	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
С	3.3	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
E	0.8	1.0	1.3	2.2	2.2	2.2	2.3	3.1	4.5
L	5.4	5.4	5.4	5.4	5.8	7.7	5.4	10	10
Н	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1						



#### **■**Dimensions

	V	4 6.3 10		16		25		35		50					
Cap. (µF)	Code	0G		0J		1A		1C		1E		1V		1H	
0.1	0R1													4 × 5.4 (3)	1.0
0.22	R22		!										1	$4 \times 5.4(3)$	2.6
0.33	R33		i		i									4 × 5.4 (3)	3.2
0.47	R47													4 × 5.4 (3)	3.8
1	010		1		1									4 × 5.4 (3)	6.3(5.9)
2.2	2R2		i		i							$3 \times 5.4$	7.5	4 × 5.4 (3)	11 (9)
3.3	3R3				 							3 × 5.4	9	4 × 5.4	14
4.7	4R7		! !		 					4 × 5.4 (3)	13 (10)	4 × 5.4	15	5 × 5.4	19
10	100		į		į			4 × 5.4 (3)	18 (14)	5 × 5.4	23	5 × 5.4	25	6.3 × 5.4	30
22	220	4 × 5.4	22	4 × 5.4	22	5 × 5.4	27	5 × 5.4	30	$6.3 \times 5.4$	38	$6.3 \times 5.4$	42	● 8 × 5.4	51 (45)
33	330	5 × 5.4	30	5 × 5.4	30	5 × 5.4	35	6.3 × 5.4	40	$6.3 \times 5.4$	48	• 8 × 5.4	59 (52)	$6.3 \times 7.7$	60
47	470	5 × 5.4	36	5 × 5.4	36	$6.3 \times 5.4$	46	6.3 × 5.4	50	● 8 × 5.4	66 (59)	$6.3 \times 5.8$	63	6.3×7.7	63
100	101	$6.3 \times 5.4$	60	$6.3 \times 5.4$	60	$6.3 \times 5.4$	60	6.3 × 5.4	60	$6.3 \times 7.7$	91	$6.3 \times 7.7$	84	8 × 10	140
150	151	$6.3 \times 5.8$	86	$6.3 \times 5.8$	86	$6.3 \times 5.8$	86	6.3 × 7.7	95	8 × 10	140	8 × 10	155	10 × 10	180
220	221	• 8 × 5.4	102 (91)	• 8 × 5.4	102 (91)	$6.3 \times 7.7$	105	6.3 × 7.7	105	8 × 10	155	8 × 10	190	10 × 10	220
330	331	$6.3 \times 7.7$	105	$6.3 \times 7.7$	105	8 × 10	195	8 × 10	195	8 × 10	190	10 × 10	300		
470	471	8 × 10	210	8 × 10	210	8 × 10	210	8 × 10	230	10 × 10	300				
680	681	8 × 10	210	8 × 10	210	10 × 10	310	10 × 10	310						
1000	102	8 × 10	230	8 × 10	230	10 × 10	310							Case size	Rated
1500	152	10 × 10	310	10 × 10	310									$\phi D \times L (mm)$	ripple

Rated ripple current (mArms) at 105°C 120Hz

• 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 UX(p.154), UJ(p.160) series if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity.

<sup>( )</sup> is also available with \$\phi 3mm upon request. In such a case, 2 will be put at 12th digit of type numbering system. Size  $\phi 6.3 \times 5.8$  is available for capacitors marked. "  $\bullet$ " In such a case,  $\boxed{6}$  will be put at 12th digit of type numbering system.

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