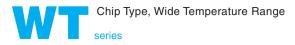
ALUMINUM ELECTROLYTIC CAPACITORS





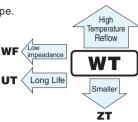
WZ

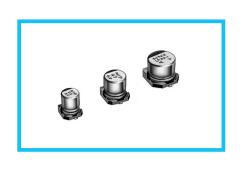
• Chip type operating over wide temperature range of to −55 to +105°C.

• 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).

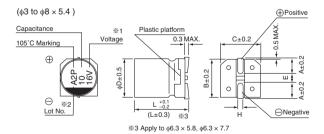


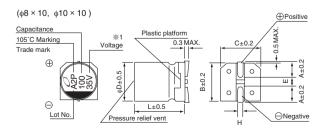


■Specifications

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 δ)	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	2	2	2	2		
	ZT / Z20 (MAX.)	Z-40°C /	Z+20°C	15	8		8	4	4	3	3		
Endurance	The specifications 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 $_6\%$ nm unit, and 16V or less. Which in $\pm 20\%$ of the initial capacitance value for capacitors of 25V or more. tan δ 200% or less than 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.												
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 se							Capacitance change		Within ±10% of the initial capacitance value			
	is maintained at 25 characteristic requi				t	tan δ		Less than or equal to the initial specified value					
IIGAL	removed from the	liley are			Leakage current Less than or equal to the initial specified value					fied value			
Marking	Black print on the c	ase top.											

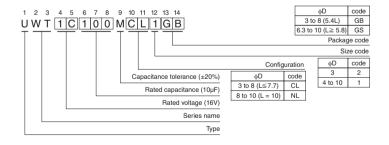
■Chip Type





- ※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	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													4 × 5.4 (3)	2.6
0.33	R33		į		i								Ì	4 × 5.4 (3)	3.2
0.47	R47													4 × 5.4 (3)	3.8
1	010		1		1								1	4 × 5.4 (3)	6.3(5.9)
2.2	2R2		į		İ							3 × 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	6.3×5.4	38	6.3×5.4	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	6.3×5.4	48	• 8 × 5.4	59 (52)	6.3×7.7	60
47	470	5 × 5.4	36	5 × 5.4	36	6.3×5.4	46	6.3 × 5.4	50	• 8 × 5.4	66 (59)	6.3×5.8	63	6.3×7.7	63
100	101	6.3×5.4	60	6.3×5.4	60	6.3×5.4	60	6.3 × 5.4	60	6.3×7.7	91	6.3×7.7	84	8 × 10	140
150	151	6.3×5.8	86	6.3×5.8	86	6.3×5.8	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)	6.3×7.7	105	6.3 × 7.7	105	8 × 10	155	8 × 10	190	10 × 10	220
330	331	6.3×7.7	105	6.3×7.7	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.

^() 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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50SKV1M4X5.5 TYEH1A336E55MTR UCD1V100MCQ1GS UCX1H471MNQ1MS 35SEV47M6.3X8 35SGV220M10X10.5

35SLV10M5X6.1 VEJ220M1VTR-0606 VES2R2M1HTR-0405 VZH102M1ATR-1010 50SEV10M6.3X5.5 50SGV1M4X6.1 107SML016M

EDK226M035A9DAA EEV-HA1A471UP SC1C476M05005VR UCX1H471MNS1MS VZH331M1ETR-0810 VES101M1CTR-0605