ALUMINUM ELECTROLYTIC CAPACITORS

Chip Type, Wide Temperature Range series

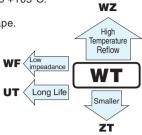


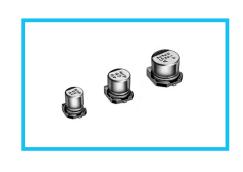
• Chip type operating over wide temperature range of to −55 to +105°C.

• 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).

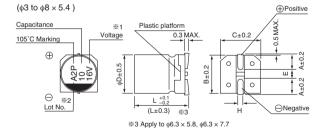


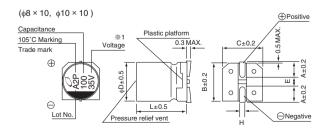


■ Specifications

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	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 ±25% of the initial capacitance value for capacitors of β mm unit, and 16V or less. Within ±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.												
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	iney are		L	Leakage current Less than or equal to the initial specified value					ified value			
Marking	Black print on the c	ase top.											

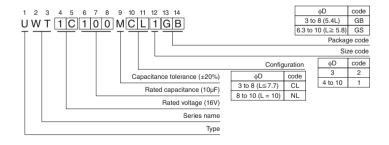
■Chip Type





- ※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
Е	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 × 5.4 (3)	2.6
0.33	R33		į		i		i I		l I				Ì	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		į		İ		i					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		i I	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		l I
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				1		
1000	102	8 × 10	230	8 × 10	230	10 × 10	310		i				į	Case size	Rated
1500	152	10 × 10	310	10 × 10	310		 		 				 	φD×L(mm)	ripple

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

() 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.

• 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.

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LNK2G182MSEF LNK2V182MSEF LNK2V222MSEF LNR1V334MSE LNT1C105MSE LNT1E154MSE LNT1E474MSE LNT1J103MSE
LNT2E103MSE LNT2E222MSE LNT2G392MSEH LNT2H222MSEG LNT2H471MSEF LNU2G562MSEH LNUN7102MSEF
LNX2H122MSEG LNX2H182MSEG LNX2V273MSEK LNX2W222MSEH LNX2W272MSEH LNY2G222MSEF LNY2V682MSEG
LNY2W182MSEG LNY2W392MSEH LQR2G562MSEH LQR2W472MSEG POLYHC-KIT TVX1C220MAD UCA2W330MHD6
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