ALUMINUM ELECTROLYTIC CAPACITORS

Chip Type, Wide Temperature Range series



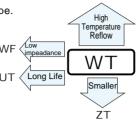
WZ

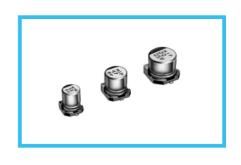
ullet Chip type operating over wide temperature range of to -55 to +105°C.

• 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).

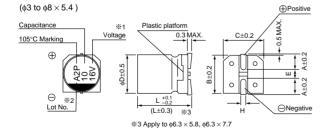


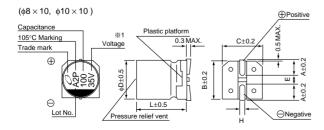


■Specifications

Item	Performance Characteristics												
Category Temperature Range	−55 to +105°C	−55 to +105°C											
Rated Voltage Range	4 to 50V												
Rated Capacitance Range	0.1 to 1500μF).1 to 1500μF											
Capacitance Tolerance	±20% at 120Hz, 20	£20% at 120Hz, 20°C											
Leakage Current	After 2 minutes' ap	plication of	rated volta	age, lea	kage cu	rrent is	not mor	re than	0.01CV	or 3 (µA)	, whiche	ver is greater.	
	Measurement frequency : 120Hz at 20°C												
Tangent of loss angle (tan δ)	Rated voltage (V)	4	6.3		10	16		25	35	5	50		
	tan δ (MAX.)	0.40	0.30		.24	0.20		0.16	0.1	4	0.14		
	Measurement frequency: 120Hz												
Ctability at Law Taganasatura	Rated voltage (V)			4	6.3	10)	16	25	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C Z-40°C / Z+20°C		7	4	3		2	2	2	2		
	ZT / Z20 (MAX.)			15	8	8		4	4	3	3		
	The specifications listed at right shall be					Capacitance Within ±25% of the initial capacitance value for capacitors of \$\phi\$mm unit, and 16V or le							
Endurance	met when the capa		change Within ±20% of the initial capacitance value for capacitors of						or capacitors of 25	V or more.			
Endurance	20°C after the rate	r	tan δ 200% or less than the initial specified value										
	1000 hours at 105°C. 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.												
	The capacitors are kept on a hot plate for 30 seconds, which							Capacitance change Within ±10%			-10% of the	initial capacitan	ce value
Resistance to soldering	is maintained at 25									Less than or equal to the initial specified value			
heat	characteristic requirements listed at right when removed from the plate and restored to 20°C.					tney are					Less than or equal to the initial specified value		
Marking	Black print on the o	ase top.											

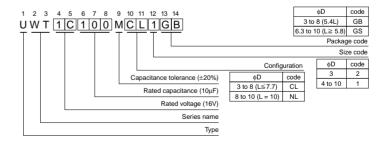
■Chip Type





- *1. Voltage mark for 6.3V is [6V]. In case of marking for φ3 units, "V" for rated
- voltage is omitted. 3/2. In case of marking for \$\phi 3\$ 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													$4 \times 5.4(3)$	1.0
0.22	R22													4 × 5.4 (3)	2.6
0.33	R33													4 × 5.4 (3)	3.2
0.47	R47												į	$4 \times 5.4(3)$	3.8
1	010													$4 \times 5.4(3)$	6.3 (5.9)
2.2	2R2											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							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	$6.3\!\times\!5.4$	46	6.3×5.4	50	● 8×5.4	66 (59)	$6.3\!\times\!5.8$	63	6.3×7.7	63
100	101	6.3×5.4	60	$6.3\!\times\!5.4$	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	$6.3\!\times\!5.8$	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)	6.3×7.7	105	6.3×7.7	105	8×10	155	8×10	190	10×10	220
330	331	6.3×7.7	105	$6.3\!\times\!7.7$	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									$\phi D \times L \text{ (mm)}$	ripple

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

• Frequency coefficient of rated ripple current

	requency	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.158), UJ(p.164) series if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity.

^() is also available with \$40 mm upon request. In such a case, 2 will be put at 12th digit of type numbering system. Size \$6.3 \times 5.8 is available for capacitors marked. " • " In such a case, 6 will be put at 12th digit of type numbering system.

Mouser Electronics

Authorized Distributor

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Nichicon:

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UWT1HR47MCL1GB UWT1HR47MCL2GB UWT1HR47MCR1GB UWT1HR47MCR2GB UWT1V100MCL1GB
UWT1V100MCR1GB UWT1V101MCL1GS UWT1V101MCR1GS UWT1V220MCL1GB UWT1V220MCR1GB
UWT1V221MNL1GS UWT1V221MNR1GS UWT1V2R2MCL2GB UWT1V2R2MCR2GB UWT1V330MCL1GB
UWT1V330MCR1GB UWT1V331MNL1GS UWT1V331MNR1GS UWT1V3R3MCL2GB UWT1V3R3MCR2GB
UWT1V470MCL1GS UWT1V470MCR1GS UWT1V4R7MCL1GB UWT1V4R7MCR1GB UWT1C100MCR2GB
UWT1C101MCL1GB UWT1C101MCR1GB UWT1C220MCL1GB UWT1C220MCR1GB UWT1C221MCL1GS
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UWT1E470MCL6GS UWT1E470MCR1GB UWT1E470MCR6GS UWT1E471MNL1GS UWT1E471MNR1GS
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UWT1H010MCL2GB UWT1H010MCR1GB UWT1H010MCR2GB UWT1H0R1MCL1GB UWT1H0R1MCL2GB
UWT1H0R1MCR1GB UWT1H0R1MCR2GB UWT1H100MCL1GB UWT1H100MCR1GB UWT1H101MNL1GS
UWT1H101MNR1GS UWT1H220MCL1GB UWT1H220MCR1GB UWT1H221MNL1GS UWT1H221MNR1GS
UWT1H2R2MCL1GB UWT1H2R2MCL2GB UWT1H2R2MCR1GB UWT1H2R2MCR2GB UWT1H330MCL1GS
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