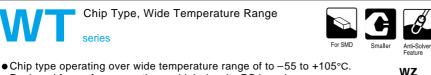
# **ALUMINUM ELECTROLYTIC CAPACITORS**

• Designed for surface mounting on high density PC board. • Applicable to automatic mounting machine using carrier tape.

• Adapted to the RoHS directive (2002/95/EC).



Chip Type, Wide Temperature Range



High

Temperature Reflow

WТ

Smaller

ΖT



## Specifications

Item	Performance Characteristics											
Category Temperature Range	-55 to +105°C	−55 to +105°C										
Rated Voltage Range	4 to 50V	to 50V										
Rated Capacitance Range	0.1 to 1500µF	0.1 to 1500µF										
Capacitance Tolerance	±20% at 120Hz, 2	0°C										
Leakage Current	After 2 minutes' ap	plication of	rated volta	age, lea	kage curr	ent is n	ot more thar	0.01CV	or 3 (µA)	, whiche	ver is greater	r.
	Measurement frequency : 120Hz, Temperature : 20°C											
tan δ	Rated voltage (V) 4 6.3			10	16	25	3	5	50	]		
	tan δ (MAX.)	0.40	0.30	0	.24	0.20	0.16	0.1	14	0.14		
	Measurement frequency : 120Hz											
Stability at Low Temperature	Rated voltage (V)			4	6.3	10	16	25	35	50		
Stability at Low Temperature	Impedance ratio	Z–25°C /		7	4	3	2	2	2	2		
	ZT / Z20 (MAX.) Z-40°C / Z+20°C 15				8	8	4	4	3	3		
				Г	Capacitance Within ±25% of initial value for capacitors of \$\$mm unit, and 16V or less							16V or less.
Endurance	After 1000 hours' application of rated voltage at 105°C, capacitors meet the characteristic				change		Within $\pm 20\%$ of initial value for capacitors of 25V or more.					
Endurance			tan δ		200% or less	200% or less of initial specified value						
	requirements listed at right. Leakage current Initial specified value											
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 51 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.							IS C 5101-4				
	The capacitors shall be kept on the hot plate maintained at 250°C Capacitance change Within ±10% of initial value											
Resistance to soldering	for 30 seconds. Af		$\tan \delta$ Initial specified value or less					-				
heat	at room temperatur listed at right.	e, they mee	t the chara	cteristic	requireme	ents	Leakage cu	rrent		becified value		_
Marking	Black print on the	case top.										

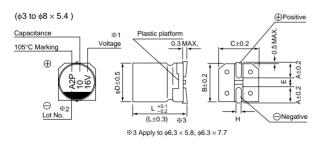
WF

UT

impeadance

Long Life

## Chip Type

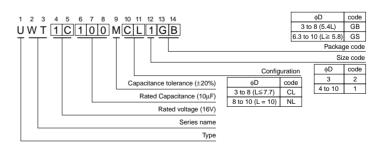


 $(\phi 8 \times 10, \phi 10 \times 10)$ ⊕Positive Capacitance Plastic platform ж1 105°C Marking 0.3 MAX. C±0.2 Voltage Trade mark Æ 0 С B±0.2 С 0 Θ L±0.5 Lot No. Negative Pressure relief vent

%1. Voltage mark for 6.3V is  $\lceil 6V \rfloor$  . In case of marking for  $\,\phi3$  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)



									(mm)
¢D×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
A	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						

## CAT.8100W

## nichicon



#### Dimensions

	V	4		6.3	3	10		16		25		35		50	
p. (µF)	Code	0G	i	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													4×5.4(3)	3.2
0.47	R47						1							4×5.4(3)	3.8
1	010													4×5.4(3)	6.3 (5
2.2	2R2						1					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 (4
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				1
680	681	8×10	210	8×10	210	10×10	310	10×10	310						1
000	102	8×10	230	8×10	230	10×10	310								Rated
500	152	10×10	310	10×10	310									φD×L(mm)	ripple

() is also available with \$3mm upon request. In such a case, 2 will be put at 12th digit of type numbering system. Size  $\phi$ 6.3 × 5.8 is available for capacitors marked. "•" In such a case, 🗟 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	• •			• •		
Coefficient 0.70 1.00 1.17 1.36 1.50	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

Please select UX(p.90), UJ(p.92) series if high C/V

products are reqired.

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