# **ALUMINUM ELECTROLYTIC CAPACITORS**

# nichicon



5.5mmL Chip Type, Bi-Polarized



- 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).



Smaller

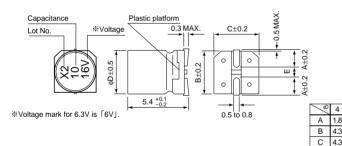
ΖP



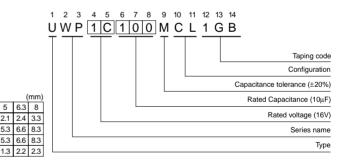
#### Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 to +85°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	0.1 to 100µF										
Capacitance Tolerance	±20% at 120Hz, 209	°C									
Leakage Current	After 2 minutes' app	lication of rat	ted volta	age, lea	kage current is	s not more	e than 0.05C	V or 10 (µ	A),whichev	ver is greater.	
tan δ	Measurement frequency : 120Hz, Temperature : 20°C										
	Rated voltage (V)	6.3	5.3 10		16	25	25 35		50	]	
	tan δ (MAX.)	0.24	0.24 0.20		0.17	0.17	<b>'</b> 0.1	15	0.15		
	Measurement frequency : 120Hz										
	Rated voltage (V)		6.3	10	16	25	35	50	]		
Stability at Low Temperature	Impedance ratio	Z–25°C / Z+	+20°C	4	3	2	2	2	2		
	ZT / Z20 (MAX.)	(MAX.) Z–40°C / Z+20°C		8	6	4	4	3	3		
	After 1000 hours' app	lication of rat	ted volta	ge	Capacitance	change	Within ±20%	of initial v	aluo		
Endurance	at 85°C with the pola				ess of initial specified value						
Endurance	hours, capacitors me				nitial specified value or less						
	requirements listed a	requirements listed at right.									
Shelf Life										based on JIS C 5101	
	clause 4.1 at 20°C,	they will mee	et the sp	ecified	value for endu	rance cha	aracteristics li	isted abov	/e.		
Resistance to soldering heat	at room temperature, they meet the characteristic requirements						Capacitance change		Within ±10% of initial value		
							tan δ		Initial specified value or less		
							Leakage current Initial specified value or less				
Maritza						-					
Marking	Black print on the ca	ase top.									

## Chip Type



### Type numbering system (Example : 16V 10µF)



## Dimensions

	V	6.3		10		16		25		35		50	
Cap. (µF)	Code	0	IJ	1A		1C		1E		1V		1H	
0.1	0R1		1									4	1.0
0.22	R22		1		1							4	2.0
0.33	R33						1					4	2.8
0.47	R47											4	4.0
1	010		1		1		1					4	8.4
2.2	2R2									4	8.4	5	13
3.3	3R3		i		1		1	5	12	5	16	5	17
4.7	4R7					4	12	5	16	5	18	6.3	20
10	100			4	17	5	23	6.3	27	6.3	29	8	36
22	220	5	28	6.3	33	6.3	37	8	50	8	54		
33	330	6.3	37	6.3	41	6.3	49	8	61				
47	470	6.3	45	8	61	8	75				1		Rated
100	101	8	82				1					Case size ¢D (mm)	ripple

5

2.1

5.3

Е

1.0

### • 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 UN(p.93) series if high C/V products are reqired.

• Please refer to page 3 for the minimum order quantity

CAT.8100W