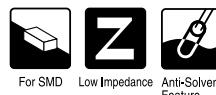


# ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



Chip Type, Low Impedance  
series



- Chip type, low impedance temperature range up to +105°C.
- 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).



## ■ Specifications

Item	Performance Characteristics										
Category Temperature Range	-55 ~ +105°C										
Rated Voltage Range	6.3 ~ 35V										
Rated Capacitance Range	1 ~ 220μF										
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.										
tan δ	Measurement frequency : 120Hz, Temperature : 20°C										
	Rated voltage (V)	6.3	10	16	25	35					
	tan δ (MAX.)	0.22	0.19	0.16	0.14	0.12					
Stability at Low Temperature	Measurement frequency : 120Hz										
	Rated voltage (V)	6.3	10	16	25	35					
	Impedance ratio Z-25°C / Z+20°C	2	2	2	2	2					
	ZT / Z20 (MAX.) Z-55°C / Z+20°C	4	4	3	3	3					
Endurance	After 1000 hours' application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.										
	Capacitance change	Within ±20% of initial value									
	tan δ	200% or less of initial specified value									
	Leakage current	Initial specified value or less									
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.										
Resistance to soldering heat	The capacitors shall be kept on the hot plate maintained at 250°C, for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.										
	Capacitance change	Within ±10% of initial value									
	tan δ	Initial specified value or less									
	Leakage current	Initial specified value or less									
Marking	Black print on the case top.										

## ■ Chip Type

(φ4 ~ 6.3)

105°C Marking

Capacitance

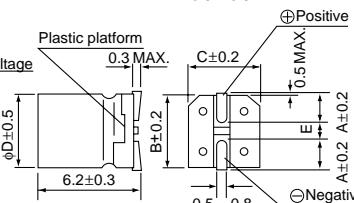
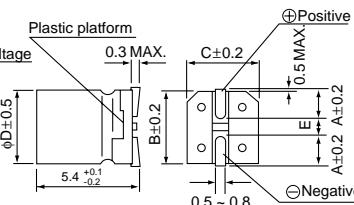
Lot No.

105°C Marking

Capacitance

Trade mark

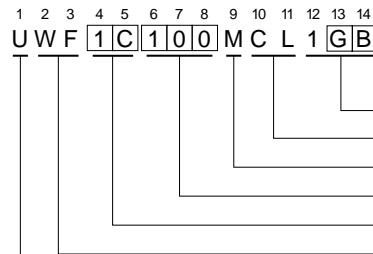
Lot No.



(mm)

※ Voltage mark for 6.3V is 6V.

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



φD Code

4 ~ 6.3 GB

8 GS

Taping code

Configuration

Capacitance tolerance (±20%)

Rated Capacitance (10μF)

Rated voltage (16V)

Series name

Type

## ■ Dimensions

Cap. (μF)	Code	6.3			10			16			25			35			
		0J	1A	1C	1E	1V											
1	010													4	5.0	50	
1.5	1R5													4	5.0	50	
2.2	2R2													4	5.0	50	
3.3	3R3													4	5.0	50	
4.7	4R7											4	5.0	50	4	5.0	50
6.8	6R8											4	5.0	50	5	2.6	80
10	100							4	5.0	50	5	2.6	80	5	2.6	80	
15	150							5	2.6	80	6.3	1.3	115	6.3	1.3	115	
22	220	4	5.0	50	5	2.6	80	5	2.6	80	6.3	1.3	115	6.3	1.3	115	
33	330	5	2.6	80	5	2.6	80	6.3	1.3	115	6.3	1.3	115	8	0.8	150	
47	470	5	2.6	80	6.3	1.3	115	6.3	1.3	115	8	0.8	150	8	0.8	150	
68	680	6.3	1.3	115	6.3	1.3	115	8	0.8	150	8	0.8	150				
100	101	6.3	1.3	115	8	0.8	150	8	0.8	150							
150	151	8	0.8	150	8	0.8	150										
220	221	8	0.8	150													

Max. Impedance (Ω) at 20°C 100kHz

Rated Ripple (mA rms) at 105°C 100kHz

## ● Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz~
Coefficient	0.35	0.50	0.64	0.83	1.00

- Taping specifications are given in page 24.
- Recommended land size, soldering by reflow are given in page 25, 26.
- Please select UJ(p.76) series if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.

CAT.8100V