# ALUMINUM ELECTROLYTIC CAPACITORS

## nichicon



5.5mmL Chip Type High Temperature (260° C) Reflow



- $\bullet \, Corresponding \ with \ 260^\circ \, C \ peak \ reflow \ soldering$
- Recomended reflow condition : 260° C peak 5 sec. 230° C over 60 sec. 2 times
- Chip type with 5.5mm height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Load life of 2000 hours at 85°C
- Compliant to the RoHS directive (2002/95/EC).





### Specifications

Item	Performance Characteristics									
Category Temperature Range	-40 to +85°C									
Rated Voltage Range	6.3 to 50V									
Rated Capacitance Range	0.1 to 150µF									
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 $\delta$ )	Rated voltage (V) 6.3 10 16 25 35 50									
	tan δ (MAX.) 0.26 0.20 0.16 0.14 0.12 0.12									
	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.) Z-40° C / Z+20°C 8 8 4 4 3 3									
	The specifications listed at right shall be met									
Endurance	when the capacitors are restored to 20° C after to a second device change within ±20% of the initial capacitance value									
	the rated voltage is applied for 2000 hours at Leskage Current Less than or equal to the initial specified value									
	85°C.									
Shelf Life	After storing the capacitors under no load at 85° 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 theendurance characteristics listed above.									
Desistance to coldering	The capacitors are kept on a hot plate for 30 seconds, which is Capacitance change Within ±10% of the initial capacitance value									
Resistance to soldering	maintained at 250° C. The capacitors shall meet the tan $\delta$ Less than or equal to the initial specified value									
neat	removed from the plate and restored to 20°C.									
Marking	Black print on the case top.									

## Chip Type



Voltage							
V	6.3	10	16	25	35	50	
Code	j	Α	С	Е	V	н	
0000	J		•	-	•		1

			(mm)
φD	4	5	6.3
A	1.8	2.1	2.4
В	4.3	5.3	6.6
С	4.3	5.3	6.6
E	1.0	1.3	2.2

## Type numbering system (Example : $16V \ 10\mu F$ )





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### Dimensions

		6	.3	1	0	1	6	2	5	3	5	5	0
Сар. (µF)	Code	0	J	1	A	1	С	1	E	1	V	1	н
0.1	0R1											4	1.0
0.22	R22								1			4	2.0
0.33	R33											4	2.8
0.47	R47											4	4.0
1	010											4	8.4
2.2	2R2								1			4	13
3.3	3R3						1		1			4	17
4.7	4R7		1				1	4	16	4	18	5	20
10	100		1			4	23	5	27	5	29	6.3	33
22	220	4	28	5	33	5	37	6.3	42	6.3	45		
33	330	5	37	5	41	6.3	49	6.3	52				
47	470	5	45	6.3	52	6.3	58						
100	101	6.3	70	6.3	76	6.3	86		1			Case size	Rated ripple
150	151	6.3	71						   		   	φ D (mm)	

Rated ripple current (mArms) at 85° C 120Hz

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