ALUMINUM ELECTROLYTIC CAPACITORS



Chip Type, High Temperature Range, Vibration Resistance series







nichicon

- Highly dependable reliability withstanding load life of 1000 hours at +150°C.
- Suited for automobile electronics where heavy duty services are indispensable.
- Compliant to the RoHS directive (2011/65/EU).





Item		Performance Characteristics							
Category Temperature Range	-40 to +150°	40 to +150°C (φ8 to 10), -55 to +150°C (φ12.5 to 18)							
Rated Voltage Range	10 to 50V								
Rated Capacitance Range	33 to 3300µF	-							
Capacitance Tolerance	±20% at 120	Hz, 20°C							
Leakage Current	After 1 minut	e's application of ı	rated voltage, lea	kage current is r	not more than 0.030	V or 4 (μA), wh	ichever is greate	er.	
	Rated	voltage (V)	10	16	25	35	50	120Hz 20°C	
Tangant of loss angle (tan %)	tan δ	φ8·φ10	0.26	0.20	0.16	0.14	0.14		
Tangent of loss angle (tan o)	(MAX.)	φ12.5 to φ18	0.22	0.18	0.16	0.14	0.12		
	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF.								
	Rated voltage (V)		10	16	25	35	50	120Hz	
Stability at Low Temperature	Impedance ratio	φ8·φ10	10	8	6	4	4		
	(MAX.)	φ12.5 to φ18	8	6	4	4	4		
	The specifications listed at right shall be met when the Capacitance change Within ±30% of the initial capacitance value								
Endurance	capacitors ar	e restored to 20°C	after the rated ve	oltage is	tan δ	300% or less than the initial specified value		cified value	
	applied for 1000 hours at 150°C. Leakage current Less than or equal to the initial specified value								
Shalf Life	After storing the capacitors under no load at 150°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.								
Marking	Black print of	Black print on the case top.							

Chip Type



L±1.0

(\$12.5 to \$18)





Aid electrode

Type numbering system (Example : 10V 220µF)



					(mm)
¢.	8	10	12.5	16	18
A	2.9	3.2	4.8	5.4	6.4
В	8.3	10.3	13.6	17.1	19.1
С	8.3	10.3	13.6	17.1	19.1
E	3.1	4.5	4.0	6.3	6.3
L	10	10	13.5	16.5,21.5	21.5
н	1.1 to 1.5	1.1 to 1.5	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4

Dimensions

								-			
	V	10		16		25		35		50	
Cap.(µF)	Code	1A		1C 1E			1V		1H		
33	330				1					8×10	70
47	470				1		1	8×10	80	10×10	100
100	101			8×10	110	8×10	¦ 110	10 × 10	120	12.5 × 13.5	420
220	221	8×10	110	10×10	150	10 × 10	150	12.5 × 13.5	550	16×16.5	550
330	331	10 × 10	150		1	12.5 × 13.5	650	12.5 × 13.5	650	16×21.5	650
470	471			12.5 × 13.5	750	12.5 × 13.5	700	16 × 16.5	750	16×21.5	850
680	681	12.5 × 13.5	800	12.5 × 13.5	800	16 × 16.5	800	16 × 21.5	950	18 × 21.5	1100
1000	102	12.5 × 13.5	900	16×16.5	850	16 ×21.5	1000	18×21.5	1150		1
2200	222	18×21.5	1350	18 × 21.5	1350		1		1	Case size	Rated
3300	332	18 × 21.5	1400						1	$\phi D \times L (mm)$	ripple

Frequency coefficient of rated ripple current

Frequency	120 Hz	300 Hz	1 kHz	10kHz or more
Coefficient	0.67	0.79	0.91	1.00

Rated ripple current (mArms) at 150°C 100kHz • Taping specifications are given in page 23.

CAT.8100D

- · Recommended land size, soldering by reflow are given
- in page 18, 19. · Please refer to page 3 for the minimum order quantity.

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