

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

AD

Snap-in Terminal Type, 105°C Withstanding Overvoltage series

series

- Withstanding 3000 hours application of rated ripple current at 105°C.
- Suited for 100V/200V switch-over use in switching power supplies.
- Withstanding overvoltage and suited for IEC-60950 application.
- Compliant to the RoHS directive (2002/95/EC).

Products which are scheduled to be discontinued.
Not recommended for new designs

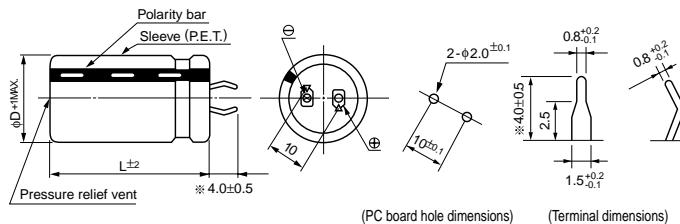
AD Withstand overvoltage GU



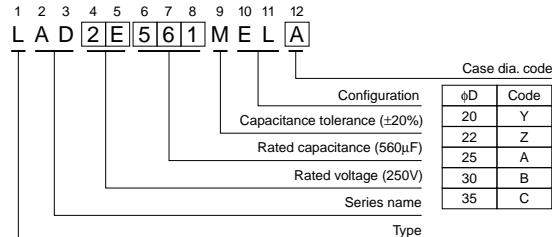
■ Specifications

Item	Performance Characteristics				
Category Temperature Range	- 40 to +105°C				
Rated Voltage Range	250V				
Rated Capacitance Range	82 to 1200μF				
Capacitance Tolerance	±20% at 120Hz, 20°C				
Leakage Current	$I \leq 3\sqrt{CV} (\mu A)$ (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) V : Voltage (V)]				
Tangent of loss angle (tan δ)	0.15MAX. 120Hz, 20°C				
Stability at Low Temperature	Rated voltage(V)	250	Measurement frequency:120Hz		
	Z - 25°C/Z+20°C	3			
	Z - 40°C/Z+20°C	12			
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 3000 hours at 105°C, the peak voltage shall not exceed the rated voltage.				
	Capacitance change	Within ±20% of the initial capacitance value			
	tan δ	200% or less than the initial specified value			
	Leakage current	Less than or equal to the initial specified value			
Shelf Life	After storing the capacitors under no load at 105°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 requirements listed at right.				
	Capacitance change	Within ±15% of the initial capacitance value			
	tan δ	150% or less than the initial specified value			
	Leakage current	Less than or equal to the initial specified value			
Withstand excess voltage	Not defective after 7 hours continuous charges of 360VDC at 70°C atmosphere.				
Marking	Printed with white color letter on black sleeve.				

■ Drawing



Type numbering system (Example : 250V 560μF)



* The other terminal is also available upon request.
Please refer page 265 for schematic of dimensions.

■ Dimensions

Cap.(μF)	Code	φD	250V (2E)						Case size φ D × L (mm)	Rated ripple
			20	22	25	30	35			
82	820	20 × 20	0.42							
100	101	20 × 25	0.53	22 × 20	0.53					
120	121	20 × 25	0.65	22 × 25	0.65	25 × 20	0.65			
150	151	20 × 30	0.79	22 × 25	0.79	25 × 25	0.79			
180	181	20 × 35	0.90	22 × 25	0.90	25 × 25	0.90	30 × 20	0.90	
220	221	20 × 40	1.00	22 × 30	1.00	25 × 25	1.00	30 × 25	1.00	
270	271	20 × 45	1.15	22 × 35	1.15	25 × 30	1.15	30 × 25	1.15	35 × 20
330	331	20 × 50	1.30	22 × 40	1.30	25 × 35	1.30	30 × 25	1.30	35 × 25
390	391			22 × 45	1.49	25 × 40	1.49	30 × 30	1.49	35 × 25
470	471					25 × 45	1.65	30 × 35	1.65	35 × 25
560	561					25 × 50	1.80	30 × 40	1.80	35 × 30
680	681							30 × 45	2.00	35 × 35
820	821							30 × 50	2.30	35 × 40
1000	102									35 × 45
1200	122									35 × 50

● Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	300	1k	10k	50k or more
Coefficient	0.81	0.85	1.00	1.17	1.32	1.45	1.50

Minimum order quantity : 50pcs.

Rated ripple current (Arms) at 105°C 120Hz

CAT.8100Y