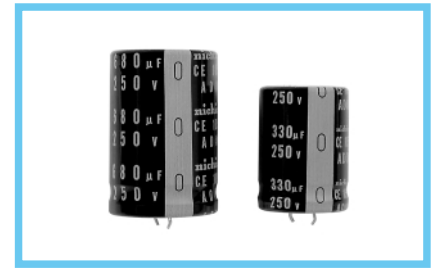


AD series Snap-in Terminal Type, Withstanding Overvoltage series

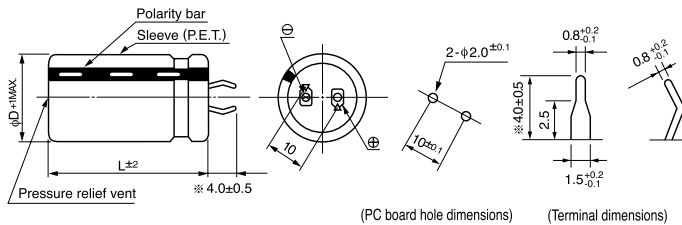
- Withstanding 3000 hours application of rated ripple current at 105°C.
- Suited for 100V/200V switch-over use in switching power supplies.
- Withstanding overvoltage and suited for IEC-60950 application.
- Adapted to the RoHS directive (2002/95/EC).



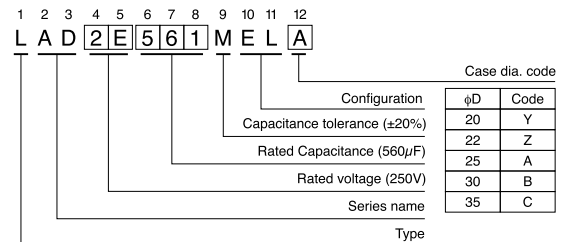
Specifications

Item	Performance Characteristics				
Category Temperature Range	- 40 ~ +105°C				
Rated Voltage Range	250V				
Rated Capacitance Range	82 ~ 1200μF				
Capacitance Tolerance	±20% at 120Hz, 20°C				
Leakage Current	$I \leq 3\sqrt{CV}$ (μA) (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) V : Voltage (V)]				
tan δ	0.15MAX. 120Hz, 20°C				
Stability at Low Temperature	Rated voltage(V)	250			
	Impedance ratio ZT/Z20 (MAX.)	<table border="1"> <tr> <td>Z - 25°C/Z+20°C</td> <td>3</td> </tr> <tr> <td>Z - 40°C/Z+20°C</td> <td>12</td> </tr> </table>	Z - 25°C/Z+20°C	3	Z - 40°C/Z+20°C
Z - 25°C/Z+20°C	3				
Z - 40°C/Z+20°C	12				
Endurance	After an application of DC voltage (in the range of rated DC voltage even after over-lapping the specified ripple current) for 3000 hours 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			
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 requirements listed at right.				
	Capacitance change	Within ±15% of initial value			
	tan δ	150% or less of 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 237 for schematic of dimensions.

Dimensions

Cap.(μF)	V(Code) Code	φD	250V (2E)										
			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	1.15		
330	331	20 × 50	1.30	22 × 40	1.30	25 × 35	1.30	30 × 25	1.30	35 × 25	1.30		
390	391			22 × 45	1.49	25 × 40	1.49	30 × 30	1.49	35 × 25	1.49		
470	471					25 × 45	1.65	30 × 35	1.65	35 × 25	1.65		
560	561					25 × 50	1.80	30 × 40	1.80	35 × 30	1.80		
680	681							30 × 45	2.00	35 × 35	2.00		
820	821							30 × 50	2.30	35 × 40	2.30		
1000	102									35 × 45	2.47		
1200	122									35 × 50	2.60		

Frequency coefficient of rated ripple current

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

Rated Ripple (Arms) at 105°C 120Hz

Minimum order quantity : 50pcs.