

Data Sheet

Customer: _____

Product: Aluminum Electrolytic Capacitors – AEHL Series

AEC-Q200 version available

Size : 22x25mm ~ 35x60mm

Issued Date: 16-Oct-2023

Edition: Ver. 1

Record of change

Date	Ver.	Description	Page
16-Oct-2023	1		

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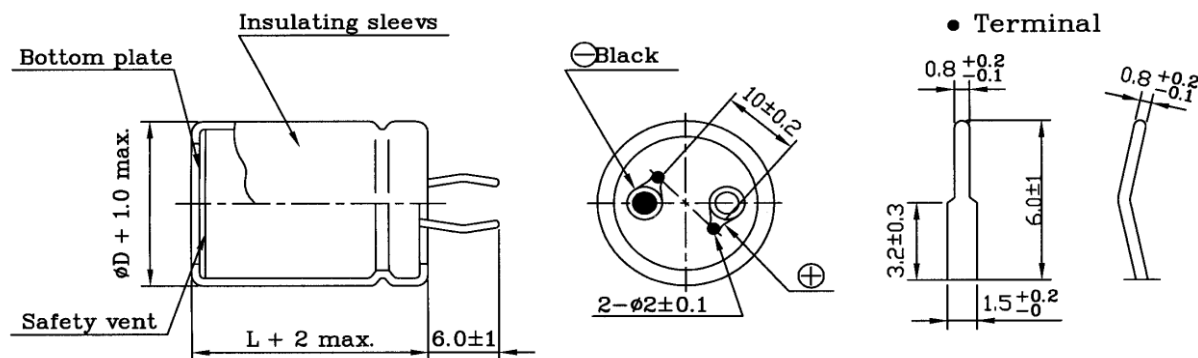
Prepared by	Checked by	Approved by	Accepted by (customer)
16-Oct-2023	16-Oct-2023	16-Oct-2023	
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- 105°C 5000 hours assured life.
- Directly mountable on printed circuit board without holders.
- Low ESR and long life.
- Terminal spacing fixed at 10mm for PC board plug in.
- Aluminum case designed explosion-proof vent.
- AEC-Q200 version available

Characteristics

Voltage Range	10 ~ 100V					160 ~ 500V			
Capacitance Range	560 ~ 47000uF					47 ~ 1500uF			
Temperature Range	-40 ~ +105°C					-25 ~ +105°C			
Capacitance Tolerance	±20% at 120Hz , 20°C(10% Tol. is available upon request)								
Leakage Current	I = 3√CV (uA) max C: Capacitance, V:W.V. (After 5 minutes)								
Dissipation Factor (tanδ)	Rated voltage	10	16	25	35	50	63 ~ 400	450	500
	tanδ	0.55	0.40	0.30	0.25	0.20	0.15	0.20	0.25
	at 20°C, 120Hz								
Stability at Low Temperature	Impedance ration at 120Hz between the -25°C or -40°C value and 20°C value shall not exceed the values given below.								
	Rated Voltage (V)		10, 16	25	35	50, 63	80, 100	160~400	450~500
	Z-25°C/Z 20°C		4	3	3	2	2	4	6
	Z-40°C/Z 20°C		15	10	8	6	5	-	-
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after rated working voltage applied for 5,000 hours at max. Operating temperature.								
	Capacitance change		≤±25% of the initial value.						
	Dissipation factor		≤±250% of the initial specified value						
	Leakage current		≤ The initial specified value.						
Shelf Life	After storage for 1000 hours at 105°C with no voltage applied, the capacitor shall meet the specified limit in load life.								

Diagram of dimensions



Multiplier for Ripple Current VS Frequency

W.V.(Vdc)\ (Hz)	50/60	120	300	1K	10K	50K
10 ~ 50	0.95	1	1.03	1.05	1.08	1.08
63 ~ 100	0.93	1	1.07	1.13	1.19	1.20
160 ~ 250	0.81	1	1.17	1.32	1.45	1.50
350 ~ 500	0.71	1	1.16	1.30	1.41	1.43

	(mm)			
Dia	22	25	30	35
α	2	2	3	3

Part Numbering Designation

<u>AEHL</u>	<u>101</u>	<u>M</u>	<u>2G</u>	<u>B</u>	<u>A</u>
SERIES	CAPACITANCE	TOL.	W.V.	PACKAGE	SIZE
	IN 3DIGITS	M= $\pm$ 20%	16= 16V	B= Bulk	A= A Size
	101= 100uF	K= $\pm$ 10%	25= 25V		B= B Size
	102= 1000uF		35= 35V		C= C Size
	103= 10,000uF		50= 50V		D=D Size
			63= 63V		
			80= 80V		
			2A= 100V		
			2C= 160V		
			2D= 200V		
			2E= 250V		
			2V= 350V		
			2G= 400V		
			2W= 450V		
			2H= 500V		