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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Type AXLH -40 °C to +150 °C

High Temperature Axial Leaded Aluminum Electrolytic Capacitors

HIGH PERFORMANCE AXIAL LEADED ALUMINUM ELECTROLYIC CAPACITORS



Type AXLH capacitors are a new generation of high performance aluminum electrolytic capacitors rated up to 2000 hours at 150 °C. They are designed for applications that place high demands on a capacitor. The capacitor's outstanding features include low ESR, low leakage current, a long shelf life and a high ripple current capability.

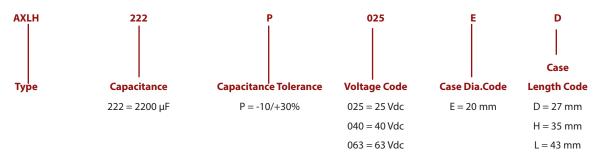
Highlights

- 150 °C Operating Temperature
- Up to 28 Amps RMS Continuous Ripple Current
- Capacitance Range: 470 μF to 4700 μF
- High Vibration Resistance
- Very Long Shelf Life
- Low Leakage Current

Capacitance Range (100 Hz/+20 °C)	470 to 4700 μF						
Capacitance Tolerance (100 Hz/+20 °C)	-10/+30%						
Rated Voltage	25, 40, 63 Vdc						
Operating Temperature	-40 °C to +150 °C						
Leakage Current (at 20°C)	I = 0.003 CV +4.0 μA; after 5 minutes at rated voltage I = leakage current in μAmps C = rated capacitance in μF V = rated DC Working voltage in Volts						
Ripple Current vs. Frequency Correction Factors	Frequency (Hz)	100	300	1000	5000	100 kHz	
	Ripple Current Correction Factor	0.35	0.57	0.8	1	1.04	
Shelf Life	(+105 °C/0 Vdc): 5000 hours (+40 °C/0 Vdc): 10 years						
Standard	IEC 60384-4 long life grade 40/125/56						
RoHS Compliant							

Part Numbering System

Specifications



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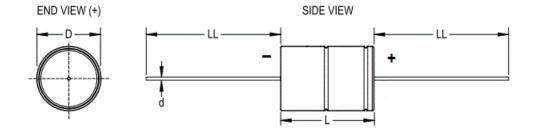
Land Martan		
Load Life Test	Test App +15	Int the capacitor on a heat sink with a low thermal resistance path. ly the maximum rated voltage for 2000 hrs at +150°C with the 0°C maximum ripple current applied to the capacitor. After the measure the capacitance, ESR, and DCL at +20°C.
	ΔC Cap	acitance will be within ±15% of the initial value
	ESR ESR	will be less than 2 times the initial value
	DCL The	leakage current will be within the specified value
	Appearance No e	electrolyte leakage or other visible damage. The markings will be ole.
Vibration Test	Freq acce	np the case to the test fixture. uency range is 10 - 2000 Hz. Amplitude of 1.5mm or 20 g leration.
		ntion of test is 22 hours in each of three directions. The test, measure the capacitance at +20°C.
	ΔC Capa	acitance change from the initial measurement must not exceed 5%.
	Appearance No e	lectrolyte leakage or other visible damage.
Surge Voltage Test		
	cycl volt	ject the capacitor to 1000 surge voltage cycles at +150°C. For each e, apply 1.15 times the rated voltage for 30 seconds followed by no age for 5 min. and 30 seconds. The time constant for charging is 0.1 onds. After one to two hours, measure the capacitance and esr.
	ΔC Cap	acitance change from the initial measurement must not exceed 15%.
	ESR The	ESR will be < 2x initial value.
	Appearance No	electrolyte leakage or other visible damage.
Storage at Low Temperature Test		
g		oject the capacitor to 72 hours at -55°C. After 16 hours at room aperature, measure the capacitance and DCL.
	ΔC Cap	pacitance change from the initial measurement must not exceed 10%.
	DCL Lea	kage current will meet the initial specification.
		electrolyte leakage or other visible damage. The markings are to be ible.
Charge and Discharge Test	each	ect the capacitor to 1 million charge/discharge cycles at +20°C. For cycle, apply the rated voltage for 0.5 seconds using a 0.1 second ge/discharge time constant. After the test, the following will apply;
	ΔC Capa	acitance will be within ±10% of the initial value.
		lectrolyte leakage or other visible damage.

High Temperature Axial Leaded Aluminum Electrolytic Capacitors

Ratings

Rated Capacitance 100Hz/+20°C	Capacitance Tolerance	VDC	Cornell Dubilier Part Number	Case Size D x L	Max. ESR 100 Hz/+20°C	Max. ESR 100 kHz/+20°C	Rated Ripple Current ≥ 5kHz/+125°C	Maximum Ripple Current ≥ 5kHz/+125°C
(μ F)	(%)			(mm)	(mΩ)	(mΩ)	(A)	(A)
2200	-10/+30	25	AXLH222P025ED	20 x 27	50	25	7.1	9.1
3300	-10/+30	25	AXLH332P025EH	20 x 35	34	17	8.9	11.3
4700	-10/+30	25	AXLH472P025EL	20 x 43	25	13	10.3	13.1
1500	-10/+30	40	AXLH152P040ED	20 x 27	57	22	7.3	9.3
2200	-10/+30	40	AXLH222P040EH	20 x 35	41	17	8.9	11.2
2700	-10/+30	40	AXLH272P040EL	20 x 43	32	13	10.1	12.8
470	-10/+30	63	AXLH471P063ED	20 x 27	125	32	5.5	7.0
680	-10/+30	63	AXLH681P063EH	20 x 35	87	23	6.9	8.7
900	-10/+30	63	AXLH901P063EL	20 x 43	67	18	8.1	10.2

Outline Drawings & Dimensions Table



		Dimensio			
Size Code	D	L	d	LL	Approximate Weight (grams)
	± 0.5	±1	± 0.03	±2	
ED	20	26.5	1	40	13
EH	20	34.5	1	40	20
EL	20	42.5	1	40	24

Note: Bend leads at least 3.5 mm from the case.

Type AXLH -40 °C to +150 °C

High Temperature Axial Leaded Aluminum Electrolytic Capacitors

Heat-Sinked Ratings

Cornell Dubilier Part Number	Max. ESR 5-100 kHz 125-150°C (mΩ)	Maximum Ripple Current *				
		≥ 5 kHz/+125°C (A)	≥ 5 kHz/+140°C (A)	≥ 5 kHz/+150°C (A)		
AXLH222P025ED	10.6	22.2	14	6.3		
AXLH332P025EH	7.8	25.8	16.3	7.3		
AXLH472P025EL	6.4	28.5	18	8.1		
AXLH152P040ED	10	22.8	14.4	6.5		
AXLH222P040EH	7.9	25.7	16.2	7.3		
AXLH272P040EL	6.7	27.9	17.6	7.9		
AXLH471P063ED	17.5	17.3	10.9	4.9		
AXLH681P063EH	13	20	12.7	5.7		
AXLH901P063EL	10.6	22.2	14	6.3		

^{*} When the capacitor is mounted to a heat-sink using low thermal resistance path.

Capacitor Markings

Marking

-- CDM ++

AXLH222P025ED

2200 uF 25VDC

160603

Description

Logo, Polarity Marks

CDE Part Number

Capacitance, Rated Voltage (VDC)

Date Code (Year, Week), Batch Number

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