

LAX Series

Features

- Snap-in terminal type
- 85°C, 2000 hours assured
- RoHS compliant, REACH&SVHC compliant

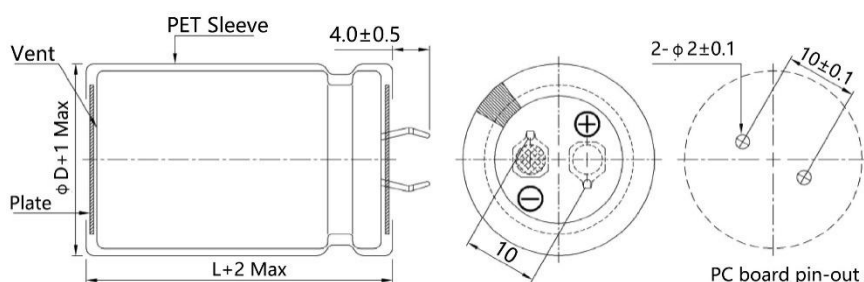


Specifications							
Category Temp. Range	10 ~ 400V			420 ~ 500V			
	-40℃ ~ +85℃			-25℃ ~ +85℃			
Capacitance Tolerance	±20% (120 Hz / +20 °C)						
Leakage Current	I ≤ 0.01 CV or 1.5 mA whichever is smaller (after 5 minutes)						
Tan δ	Please see the attached characteristics list						
Low Temperature Characteristics (Impedance ratio at 120 Hz)	Rated voltage (V)	10	10~35	50~100	160~200	250~400	420~500
	Z (-25 °C) / Z (+20 °C)	5	4	3	3	4	4
	Z (-40 °C) / Z (+20 °C)	18	15	10	6	12	-
Ripple Current and Frequency Multipliers	<div>Frequency</div> <div>Rated voltage</div>	50/60Hz	120Hz	300Hz	1kHz	10kHz	≥50kHz
	≤50V	0.88	1.00	1.07	1.15	1.15	1.15
	63~100V	0.80	1.00	1.17	1.32	1.45	1.50
	≥160V	0.80	1.00	1.16	1.30	1.41	1.43
Ripple Current and Temperature Multipliers	<div>Temperature</div> <div>Rated voltage</div>	+40℃	+55℃	+70℃	+85℃		
	< 160V	2.1	1.8	1.5	1.0		
	≥160V	1.7	1.5	1.3	1.0		

	Useful Life		Load Life	Endurance Test	Shelf Life	
Life Time	4000H	≥65000H	2000H	3000H	1000H	
Capacitance Change	Within ±30% of initial value		Within ±15% of initial value	Within ±20% of initial value	Within ±15% of initial value	
Tan δ	Less than 300% of specified value		Less than 150% of specified value	Less than 200% of specified value	Less than 150% of specified value	
Leakage Current	Within specified value		Within specified value	Within specified value	Within specified value	
Condition:						
Applied Voltage	U_R	U_R	U_R	U_R	$U_R=0$	After test : U_R shall be applied for 30min
Applied Current	I_R	$1.2 \times I_R$	I_R	$I_R=0$	$I_R=0$	
Applied Temperature	85°C	40°C	85°C	85°C	85°C	

Dimensions:

Unit: mm



Part Number System:

E-cap	series	400V	330μF	±20 %	30Φx35L		
L	AX	2G	331	M	3035		
Product category	Series name	Rated voltage	Capacitance	Capacitance tolerance	Case Size	Terminal type	Terminal length

Note: For more details, please refer to "Part Number System – Snap in type"

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 85°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
10	18000	25	30	3.6	30	24	0.40	LAX1A183M2530□□
	22000	22	40	4	25	20	0.40	LAX1A223M2240□□
		25	35	4.1	25	20	0.40	LAX1A223M2535□□
	33000	25	40	4.6	17	13	0.40	LAX1A333M2540□□
		30	30	4.8	17	13	0.40	LAX1A333M3030□□
	39000	25	45	5.2	14	10.9	0.40	LAX1A393M2545□□
		30	35	5.3	14	10.9	0.40	LAX1A393M3035□□
	47000	30	40	6	12	9.1	0.40	LAX1A473M3040□□
		35	30	6	12	9.1	0.40	LAX1A473M3530□□
	56000	35	35	6.8	9.5	7.6	0.40	LAX1A563M3535□□
16	15000	22	40	3.3	36	29	0.40	LAX1C153M2240□□
		25	30	3.3	36	29	0.40	LAX1C153M2530□□
	18000	22	45	3.8	30	24	0.40	LAX1C183M2245□□
		25	35	3.7	30	24	0.40	LAX1C183M2535□□
	22000	25	40	4.2	25	20	0.40	LAX1C223M2540□□
		30	30	4.2	25	20	0.40	LAX1C223M3030□□
	27000	25	45	5	20	16	0.40	LAX1C273M2545□□
		30	35	5	20	16	0.40	LAX1C273M3035□□
	33000	35	30	5.6	17	13	0.40	LAX1C333M3530□□
	39000	35	35	6.3	14	11	0.40	LAX1C393M3535□□
25	10000	22	40	2.9	47	38	0.35	LAX1E103M2240□□
		25	30	2.8	47	38	0.35	LAX1E103M2530□□
	12000	25	35	3.2	39	31	0.35	LAX1E123M2535□□
		30	30	3.4	39	31	0.35	LAX1E123M3030□□
	15000	25	40	3.7	31	25	0.35	LAX1E153M2540□□
		35	25	3.9	31	25	0.35	LAX1E153M3525□□
	18000	30	35	4.2	26	21	0.35	LAX1E183M3035□□
		35	30	4.4	26	21	0.35	LAX1E183M3530□□
	22000	35	35	5	22	17	0.35	LAX1E223M3535□□
	33000	35	40	6.5	15	12	0.35	LAX1E333M3540□□
30	39000	35	45	7.5	12	10	0.35	LAX1E393M3545□□
	47000	35	50	8.8	10	8	0.35	LAX1E473M3550□□

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 85°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
35	5600	22	35	2.3	72	57	0.30	LAX1V562M2235□□
		25	30	2.3	72	57	0.30	LAX1V562M2530□□
	6800	22	40	2.9	59	47	0.30	LAX1V682M2240□□
		25	35	2.6	59	47	0.30	LAX1V682M2535□□
	8200	25	40	2.8	57	46	0.35	LAX1V822M2540□□
		30	30	2.8	57	46	0.35	LAX1V822M3030□□
	10000	30	35	3.2	47	38	0.35	LAX1V103M3035□□
		35	20	2.8	47	38	0.35	LAX1V103M3520□□
	12000	35	30	3.6	39	31	0.35	LAX1V123M3530□□
	15000	35	35	4.1	31	25	0.35	LAX1V153M3535□□
	18000	35	40	4.7	26	21	0.35	LAX1V183M3540□□
	22000	35	45	5.3	22	17	0.35	LAX1V223M3545□□
	27000	35	50	7	18	14	0.35	LAX1V273M3550□□
50	2200	22	25	1.7	120	97	0.20	LAX1H222M2225□□
	3900	25	30	2.1	86	69	0.25	LAX1H392M2530□□
	4700	22	40	2.4	71	57	0.25	LAX1H472M2240□□
		25	35	2.4	71	57	0.25	LAX1H472M2535□□
	5600	25	40	2.5	72	57	0.30	LAX1H562M2540□□
		30	30	2.5	72	57	0.30	LAX1H562M3030□□
	6800	25	45	2.8	59	47	0.30	LAX1H682M2545□□
		30	35	2.8	59	47	0.30	LAX1H682M3035□□
	8200	30	40	3	57	46	0.35	LAX1H822M3040□□
		35	30	3	57	46	0.35	LAX1H822M3530□□
	10000	35	35	3.4	47	38	0.35	LAX1H103M3535□□
	12000	35	40	3.8	39	31	0.35	LAX1H123M3540□□
	15000	35	50	4.5	31	25	0.35	LAX1H153M3550□□
63	2700	25	30	2.3	74	59	0.15	LAX1J272M2530□□
	3300	22	40	2.3	81	65	0.20	LAX1J332M2240□□
		25	35	2.3	81	65	0.20	LAX1J332M2535□□
	3900	25	40	2.6	69	55	0.20	LAX1J392M2540□□
		30	30	2.6	69	55	0.20	LAX1J392M3030□□
	4700	25	45	3	56	45	0.20	LAX1J472M2545□□
		30	30	3	56	45	0.20	LAX1J472M3030□□
	5600	35	30	3.3	48	38	0.20	LAX1J562M3530□□
	6800	35	35	3.7	40	32	0.20	LAX1J682M3535□□
	8200	35	40	3.8	41	33	0.25	LAX1J822M3540□□
	10000	35	45	4.3	34	27	0.25	LAX1J103M3545□□
	12000	35	50	4.8	28	23	0.25	LAX1J123M3550□□
80	1800	25	30	1.9	111	89	0.15	LAX1K182M2530□□
	2200	25	35	2.2	91	73	0.15	LAX1K222M2535□□
		30	25	2.2	91	73	0.15	LAX1K222M3025□□
	2700	25	40	2.5	74	59	0.15	LAX1K272M2540□□
		30	30	2.5	74	59	0.15	LAX1K272M3030□□
	3300	25	45	2.8	61	49	0.15	LAX1K332M2545□□
		30	35	2.8	61	49	0.15	LAX1K332M3035□□
	3900	25	50	3.1	52	41	0.15	LAX1K392M2550□□
		35	30	3.2	52	41	0.15	LAX1K392M3530□□
	4700	35	35	3.6	43	34	0.20	LAX1K472M3535□□
	5600	35	40	3.8	48	38	0.20	LAX1K562M3540□□
	6800	35	45	4.1	40	32	0.20	LAX1K682M3545□□
	8200	35	50	4.7	41	33	0.25	LAX1K822M3550□□
	10000	35	50	5.2	34	27	0.25	LAX1K103M3550□□
	12000	35	55	5.8	28	23	0.25	LAX1K123M3555□□

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 85°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
100	1200	25	30	1.6	166	133	0.15	LAX2A122M2530□□
	1500	22	40	1.8	133	107	0.15	LAX2A152M2240□□
		25	35	1.7	133	107	0.15	LAX2A152M2535□□
	1800	25	40	2	111	89	0.15	LAX2A182M2540□□
		30	30	2.1	111	89	0.15	LAX2A182M3030□□
	2200	30	35	2.3	91	73	0.15	LAX2A222M3035□□
		35	30	2.5	91	73	0.15	LAX2A222M3530□□
	2700	25	50	2.6	74	59	0.15	LAX2A272M2550□□
		30	40	2.7	74	59	0.15	LAX2A272M3040□□
160	3300	35	35	3.1	61	49	0.15	LAX2A332M3535□□
	3900	35	40	3.4	52	41	0.15	LAX2A392M3540□□
	4700	35	50	4	43	34	0.15	LAX2A472M3550□□
	470	25	30	1.6	283	226	0.10	LAX2C471M2530□□
	560	22	35	1.9	237	190	0.10	LAX2C561M2235□□
		25	30	1.9	237	190	0.10	LAX2C561M2530□□
	680	22	40	2.1	196	157	0.10	LAX2C681M2240□□
		25	35	2.2	196	157	0.10	LAX2C681M2535□□
	820	25	40	2.4	162	130	0.10	LAX2C821M2540□□
		30	30	2.5	162	130	0.10	LAX2C821M3030□□
	1000	30	35	2.8	133	107	0.10	LAX2C102M3035□□
		35	30	2.7	160	128	0.12	LAX2C102M3530□□
180	1200	35	35	3	133	107	0.12	LAX2C122M3535□□
	1500	35	40	3.5	107	85	0.12	LAX2C152M3540□□
	1800	35	45	3.9	89	71	0.12	LAX2C182M3545□□
	2200	35	50	4.5	73	58	0.12	LAX2C222M3550□□
	680	25	40	2.2	196	157	0.10	LAX2K681M2540□□
		30	30	2.3	196	157	0.10	LAX2K681M3030□□
	820	30	35	2.6	162	130	0.10	LAX2K821M3035□□
		35	30	2.5	195	156	0.12	LAX2K821M3530□□
200	1000	25	50	2.9	133	107	0.10	LAX2K102M2550□□
		30	40	2.9	133	107	0.10	LAX2K102M3040□□
	1200	35	35	3.1	133	107	0.12	LAX2K122M3535□□
	1500	35	45	3.6	107	85	0.12	LAX2K152M3545□□
	1800	35	50	4.1	89	71	0.12	LAX2K182M3550□□
	390	25	30	1.6	341	273	0.10	LAX2D391M2530□□
	470	22	35	1.7	283	226	0.10	LAX2D471M2235□□
		30	25	1.9	283	226	0.10	LAX2D471M3025□□
	560	25	35	2	237	190	0.10	LAX2D561M2535□□
		30	30	2.1	237	190	0.10	LAX2D561M3030□□
200	680	25	40	2.3	196	157	0.10	LAX2D681M2540□□
		30	35	2.4	196	157	0.10	LAX2D681M3035□□
	820	30	40	2.7	162	130	0.10	LAX2D821M3040□□
		35	30	2.5	195	156	0.12	LAX2D821M3530□□
	1000	35	35	2.8	160	128	0.12	LAX2D102M3535□□
	1200	35	40	3.2	133	107	0.12	LAX2D122M3540□□
	1500	35	50	3.8	107	85	0.12	LAX2D152M3550□□

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 85°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
250	330	22	40	1.4	603	483	0.15	LAX2E331M2240□□
		25	30	1.4	603	483	0.15	LAX2E331M2530□□
	390	22	45	1.6	511	409	0.15	LAX2E391M2245□□
		25	35	1.6	511	409	0.15	LAX2E391M2535□□
	470	25	40	1.8	424	339	0.15	LAX2E471M2540□□
		30	30	1.8	424	339	0.15	LAX2E471M3030□□
	560	25	45	2	356	285	0.15	LAX2E561M2545□□
		30	35	2	356	285	0.15	LAX2E561M3035□□
	680	30	40	2.3	293	235	0.15	LAX2E681M3040□□
		35	30	2.3	293	235	0.15	LAX2E681M3530□□
	820	25	40	2.4	243	195	0.15	LAX2E821M2540□□
		30	45	2.6	243	195	0.15	LAX2E821M3045□□
		35	35	2.6	243	195	0.15	LAX2E821M3535□□
315	1000	35	40	3	199	160	0.15	LAX2E102M3540□□
	1200	35	45	3.4	166	133	0.15	LAX2E122M3545□□
	180	25	30	0.96	1106	885	0.15	LAX2F181M2530□□
	220	22	40	1.1	905	724	0.15	LAX2F221M2240□□
		25	35	1.1	905	724	0.15	LAX2F221M2535□□
	270	22	45	1.2	737	590	0.15	LAX2F271M2245□□
		25	40	1.3	737	590	0.15	LAX2F271M2540□□
		30	30	1.3	737	590	0.15	LAX2F271M3030□□
	330	25	45	1.4	603	483	0.15	LAX2F331M2545□□
		30	35	1.4	603	483	0.15	LAX2F331M3035□□
	390	30	40	1.6	511	409	0.15	LAX2F391M3040□□
		35	30	1.6	511	409	0.15	LAX2F391M3530□□
350	470	30	45	1.8	424	339	0.15	LAX2F471M3045□□
		35	35	1.8	424	339	0.15	LAX2F471M3535□□
	560	30	50	2	356	285	0.15	LAX2F561M3050□□
		35	40	2	356	285	0.15	LAX2F561M3540□□
	680	35	45	2.3	293	235	0.15	LAX2F681M3545□□
	150	25	30	0.94	1327	1062	0.15	LAX2V151M2530□□
	180	22	40	1.1	1106	885	0.15	LAX2V181M2240□□
		30	25	1.1	1106	885	0.15	LAX2V181M3025□□
	220	25	35	1.2	905	724	0.15	LAX2V221M2535□□
		30	30	1.2	905	724	0.15	LAX2V221M3030□□
	270	25	45	1.4	737	590	0.15	LAX2V271M2545□□
		30	35	1.4	737	590	0.15	LAX2V271M3035□□
350	330	25	50	1.6	603	483	0.15	LAX2V331M2550□□
		35	30	1.6	603	483	0.15	LAX2V331M3530□□
	390	30	40	1.7	511	409	0.15	LAX2V391M3040□□
		35	35	1.8	511	409	0.15	LAX2V391M3535□□
	470	30	45	2	424	339	0.15	LAX2V471M3045□□
		35	40	2	424	339	0.15	LAX2V471M3540□□
	560	35	45	2.3	356	285	0.15	LAX2V561M3545□□
	680	35	50	2.6	293	535	0.15	LAX2V681M3550□□
	820	35	60	2.8	243	195	0.15	LAX2V821M3560□□

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 85°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
400	150	25	30	0.89	1327	1062	0.15	LAX2G151M2530□□
	180	22	40	1	1106	885	0.15	LAX2G181M2240□□
		25	30	1	1106	885	0.15	LAX2G181M2530□□
	220	22	45	1.1	905	724	0.15	LAX2G221M2245□□
		25	40	1.2	905	724	0.15	LAX2G221M2540□□
	270	25	45	1.3	737	590	0.15	LAX2G271M2545□□
		30	30	1.5	737	590	0.15	LAX2G271M3030□□
	330	22	50	1.6	603	483	0.15	LAX2G331M2250□□
		25	45	1.6	603	483	0.15	LAX2G331M2545□□
		30	35	1.7	603	483	0.15	LAX2G331M3035□□
	390	25	45	1.8	511	409	0.15	LAX2G391M2545□□
		35	30	1.8	511	409	0.15	LAX2G391M3530□□
		30	40	1.9	511	409	0.15	LAX2G391M3040□□
	470	35	35	2.1	424	339	0.15	LAX2G471M3535□□
	560	35	40	2.3	356	285	0.15	LAX2G561M3540□□
420	120	25	30	0.82	1658	1327	0.15	LAX2P121M2530□□
	150	25	30	0.96	1327	1062	0.15	LAX2P151M2530□□
	180	25	35	1.1	1106	885	0.15	LAX2P181M2535□□
		30	30	1.2	1106	885	0.15	LAX2P181M3030□□
	220	25	40	1.2	905	724	0.15	LAX2P221M2540□□
		30	30	1.3	905	724	0.15	LAX2P221M3030□□
	270	25	45	1.3	737	590	0.15	LAX2P271M2545□□
		30	30	1.4	737	590	0.15	LAX2P271M3030□□
	330	30	40	1.7	603	483	0.15	LAX2P331M3040□□
	390	30	45	1.8	511	409	0.15	LAX2P391M3045□□
		35	35	1.9	511	409	0.15	LAX2P391M3535□□
	470	30	45	2.0	424	339	0.15	LAX2P471M3045□□
		35	40	2.2	424	339	0.15	LAX2P471M3540□□
	560	35	45	2.4	356	285	0.15	LAX2P561M3545□□
	680	35	50	2.8	293	235	0.15	LAX2P681M3550□□
450	820	35	60	3.2	242	194	0.15	LAX2P821M3560□□
	1000	40	60	4	133	107	0.15	LAX2P102M4060□□
	120	25	30	0.83	1658	1327	0.15	LAX2W121M2530□□
	150	22	45	0.95	1327	1062	0.15	LAX2W151M2245□□
		25	35	0.95	1327	1062	0.15	LAX2W151M2535□□
	180	25	40	1.1	1106	885	0.15	LAX2W181M2540□□
		30	30	1.1	1106	885	0.15	LAX2W181M3030□□
	220	22	50	1.2	905	724	0.15	LAX2W221M2250□□
		25	40	1.2	905	724	0.15	LAX2W221M2540□□
		30	30	1.2	905	724	0.15	LAX2W221M3030□□
	270	30	30	1.4	737	590	0.15	LAX2W271M3030□□
	330	30	40	1.6	603	480	0.15	LAX2W271M3040□□
	390	30	40	1.7	511	409	0.15	LAX2W391M3040□□
		35	35	1.8	511	409	0.15	LAX2W391M3535□□
	470	30	45	2.1	424	339	0.15	LAX2W471M3045□□
	560	35	45	2.3	356	285	0.15	LAX2W561M3545□□
	680	35	50	2.7	293	235	0.15	LAX2W681M3550□□
	820	35	60	3.2	242	194	0.15	LAX2W821M3560□□
	1000	35	70	4.2	133	107	0.15	LAX2W102M3570□□

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 85°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
500	100	25	30	0.75	1990	1592	0.15	LAX2H101M2530□□
	120	25	30	0.83	1658	1327	0.15	LAX2H121M2530□□
	150	30	30	0.95	1327	1062	0.15	LAX2H151M3030□□
	180	25	40	1.1	1106	885	0.15	LAX2H181M2540□□
		30	30	1.1	1106	885	0.15	LAX2H181M3030□□
	220	25	45	1.3	905	724	0.15	LAX2H221M2545□□
		30	35	1.3	905	724	0.15	LAX2H221M3035□□
	270	30	40	1.5	737	590	0.15	LAX2H271M3040□□
	330	35	35	1.6	603	483	0.15	LAX2H231M3535□□
	390	35	40	1.9	511	409	0.15	LAX2H391M3540□□
	470	35	45	2.2	424	339	0.15	LAX2H471M3545□□
	560	35	50	2.4	356	285	0.15	LAX2H561M3550□□
	680	35	50	2.7	293	235	0.15	LAX2H681M3550□□