

LGX Series

Features

- Snap-in terminal type
- 105°C, 2000 hours assured
- RoHS compliant, REACH&SVHC compliant

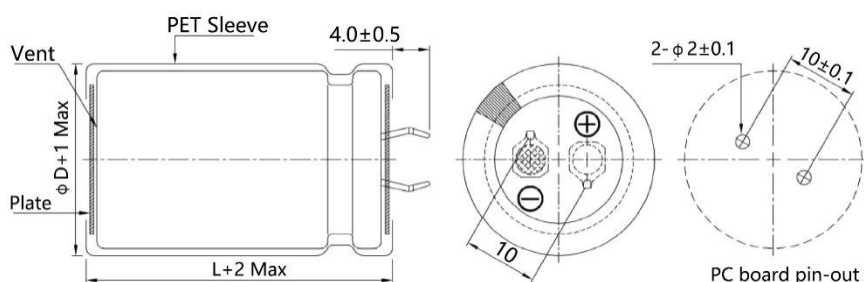


Specifications								
Category Temp. Range	16 ~ 100V			160 ~ 550V				
	-40℃ ~ +105℃			-25℃ ~ +105℃				
Capacitance Tolerance	±20% (120 Hz / +20 ℃)							
Leakage Current	I ≤ 0.01 CV or 1.5 mA whichever is smaller (after 5 minutes)							
Tan δ	Please see the attached characteristics list							
Low Temperature Characteristics (Impedance ratio at 120 Hz)	Rated voltage (V)	16~100	160~500	550				
	Z (-25 ℃) / Z (+20 ℃)	4	4	8				
	Z (-40 ℃) / Z (+20 ℃)	15	-	-				
Ripple Current and Frequency Multipliers	Frequency		50/60Hz	120Hz	300Hz	1kHz	10kHz	≥50kHz
	Rated voltage							
	≤100V		0.95	1.00	1.07	1.13	1.19	1.20
	160~250V		0.87	1.00	1.17	1.32	1.45	1.50
	≥315V		0.80	1.00	1.16	1.30	1.41	1.43
Ripple Current and Temperature Multipliers	Temperature	+40℃	+55℃	+70℃	+85℃	+105℃		
	Multipliers	2.7	2.5	2.1	1.7	1.0		

	Useful Life		Load Life	Endurance Test	Shelf Life	
Life Time	4000H	≥180000H	2000H	3000H	1000H	
Capacitance Change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Tan δ	Less than 300% of specified value		Less than 200% of specified value	Less than 200% of specified value	Less than 200% 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	$1.4 \times I_R$	I_R	$I_R=0$	$I_R=0$	
Applied Temperature	105°C	40°C	105°C	105°C	105°C	

Dimensions:

Unit: mm



Part Number System:

E-cap	series	400V	330μF	±20 %	30 Φ x40L		
L	GX	2G	331	M	3040		
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) 105°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
16	12000	25	30	2.3	55	39	0.50	LGX1C123M2530□□
	15000	25	35	2.68	44	31	0.50	LGX1C153M2535□□
	18000	25	40	3.04	37	26	0.50	LGX1C183M2540□□
		30	30	3	37	26	0.50	LGX1C183M3030□□
	22000	25	45	3.4	30	21	0.50	LGX1C223M2545□□
		30	35	3.39	30	21	0.50	LGX1C223M3035□□
	27000	30	40	3.83	25	17	0.50	LGX1C273M3040□□
		35	30	3.74	25	17	0.50	LGX1C273M3530□□
	33000	30	45	4.3	20	14	0.50	LGX1C333M3045□□
		35	35	4.24	20	14	0.50	LGX1C333M3535□□
39000	30	50	4.74	17	12	0.50	LGX1C393M3050□□	
	35	40	4.72	17	12	0.50	LGX1C393M3540□□	
47000	35	45	5.27	14	10	0.50	LGX1C473M3545□□	
25	8200	25	30	2.16	65	45	0.40	LGX1E822M2530□□
	10000	25	35	2.44	53	37	0.40	LGX1E103M2535□□
	12000	25	40	2.74	44	31	0.40	LGX1E123M2540□□
		30	30	2.7	44	31	0.40	LGX1E123M3030□□
	15000	25	45	3.15	35	25	0.40	LGX1E153M2545□□
		30	35	3.13	35	25	0.40	LGX1E153M3035□□
	18000	25	50	3.54	30	21	0.40	LGX1E183M2550□□
		30	40	3.54	30	21	0.40	LGX1E183M3040□□
	22000	30	45	4.24	24	17	0.40	LGX1E223M3045□□
		35	35	3.96	24	17	0.40	LGX1E223M3535□□
27000	35	45	4.75	20	14	0.40	LGX1E273M3545□□	
33000	35	50	5.39	16	11	0.40	LGX1E333M3550□□	
35	5600	25	30	2.04	83	58	0.35	LGX1V562M2530□□
	6800	25	35	2.31	68	48	0.35	LGX1V682M2535□□
	8200	25	40	2.6	57	40	0.35	LGX1V822M2540□□
		30	30	2.56	57	40	0.35	LGX1V822M3030□□
	10000	25	45	2.92	46	33	0.35	LGX1V103M2545□□
		30	35	2.92	46	33	0.35	LGX1V103M3035□□
	12000	30	40	3.28	39	27	0.35	LGX1V123M3040□□
		35	30	3.2	39	27	0.35	LGX1V123M3530□□
	15000	30	45	3.74	31	22	0.35	LGX1V153M3045□□
		35	35	3.69	31	22	0.35	LGX1V153M3535□□
18000	35	40	4.16	26	18	0.35	LGX1V183M3540□□	
22000	35	50	4.92	21	15	0.35	LGX1V223M3550□□	

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 105°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
50	3300	25	25	2	121	84	0.30	LGX1H332M2525□□
	3900	25	3	2.28	102	72	0.30	LGX1H332M2530□□
	4700	25	30	2.58	85	59	0.30	LGX1H472M2530□□
	5600	25	35	2.81	71	50	0.30	LGX1H562M2535□□
	680	25	40	3.37	59	41	0.30	LGX1H682M2540□□
		30	35	3.39	59	41	0.30	LGX1H682M3035□□
	8200	30	40	3.71	49	34	0.30	LGX1H822M3040□□
		35	35	3.66	49	34	0.30	LGX1H822M3535□□
	10000	30	45	4.09	40	28	0.30	LGX1H103M3045□□
		35	40	4.07	40	28	0.30	LGX1H103M3540□□
63	12000	35	45	4.5	33	23	0.30	LGX1H123M3545□□
	2200	25	30	1.75	121	84	0.20	LGX1J222M2530□□
	2700	25	35	1.99	98	69	0.20	LGX1J272M2535□□
	3300	25	40	2.27	80	56	0.20	LGX1J332M2540□□
		30	30	2.24	80	56	0.20	LGX1J332M3030□□
	3900	25	45	2.54	68	48	0.20	LGX1J392M2545□□
		30	35	2.55	68	48	0.20	LGX1J392M3035□□
	4700	25	50	2.88	57	40	0.20	LGX1J472M2550□□
		30	40	2.9	57	40	0.20	LGX1J472M3040□□
	5600	30	45	3.28	47	33	0.20	LGX1J562M3045□□
		35	35	3.24	47	33	0.20	LGX1J562M3535□□
	6800	30	50	3.73	39	27	0.20	LGX1J682M3050□□
		35	40	3.71	39	27	0.20	LGX1J682M3540□□
80	8200	35	45	4.16	32	23	0.20	LGX1J822M3545□□
	10000	35	50	4.69	27	19	0.20	LGX1J103M3550□□
	1500	25	30	1.62	177	124	0.20	LGX1K152M2530□□
	1800	25	30	1.81	147	103	0.20	LGX1K182M2530□□
	2200	22	45	2.09	121	84	0.20	LGX1K222M2245□□
		25	35	2.01	121	84	0.20	LGX1K222M2535□□
	2700	30	35	2.43	98	69	0.20	LGX1K272M3035□□
	3300	30	40	2.78	80	56	0.20	LGX1K332M3040□□
	3900	30	45	3.12	68	48	0.20	LGX1K392M3045□□
100	4700	35	40	3.5	57	40	0.20	LGX1K472M3540□□
	5600	35	45	3.87	47	33	0.20	LGX1K562M3545□□
	6800	35	50	4.19	39	27	0.20	LGX1K682M3550□□
	1000	25	30	1.56	265	186	0.20	LGX2A102M2530□□
	1200	25	35	1.76	221	155	0.20	LGX2A122M2535□□
	1500	25	40	2.03	177	124	0.20	LGX2A152M2540□□
		30	30	2	177	124	0.20	LGX2A152M3030□□
	1800	25	45	2.28	147	103	0.20	LGX2A182M2545□□
		30	35	2.27	147	103	0.20	LGX2A182M3035□□
	2200	25	50	2.57	121	84	0.20	LGX2A222M2550□□
		30	40	2.59	121	84	0.20	LGX2A222M3040□□
	2700	30	45	2.94	98	69	0.20	LGX2A272M3045□□
	3300	30	50	3.32	80	56	0.20	LGX2A332M3050□□
		35	40	3.31	80	56	0.20	LGX2A332M3540□□
	3900	35	45	3.69	68	48	0.20	LGX2A392M3545□□
	4700	35	50	4.14	57	40	0.20	LGX2A472M3550□□

Characteristics list								
Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 105°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
160	560	22	40	1.62	355	249	0.15	LGX2C561M2240□□
		25	30	1.73	355	249	0.15	LGX2C561M2530□□
	680	22	45	1.7	293	205	0.15	LGX2C681M2245□□
		25	35	1.81	293	205	0.15	LGX2C681M2535□□
	820	25	40	1.98	243	170	0.15	LGX2C821M2540□□
		30	30	1.98	243	170	0.15	LGX2C821M3030□□
	1000	25	45	2.04	199	139	0.15	LGX2C102M2545□□
		30	35	2.14	199	139	0.15	LGX2C102M3035□□
	1200	25	50	2.12	166	116	0.15	LGX2C122M2550□□
		30	40	2.22	166	116	0.15	LGX2C122M3040□□
	1500	30	45	2.46	133	93	0.15	LGX2C152M3045□□
		35	35	2.53	133	93	0.15	LGX2C152M3535□□
180	470	22	35	1.5	424	296	0.15	LGX2K471M2235□□
		25	30	1.62	424	296	0.15	LGX2K471M2530□□
	560	22	40	1.62	355	249	0.15	LGX2K561M2240□□
		25	35	1.69	355	249	0.15	LGX2K561M2535□□
	680	25	40	1.72	293	205	0.15	LGX2K681M2540□□
		30	30	1.74	293	205	0.15	LGX2K681M3030□□
	820	25	45	0.78	243	170	0.15	LGX2K821M2545□□
		30	35	1.85	243	170	0.15	LGX2K821M3035□□
	1000	25	50	1.91	199	139	0.15	LGX2K102M2550□□
		30	40	2.01	199	139	0.15	LGX2K102M3040□□
	1200	30	45	2.19	166	116	0.15	LGX2K122M3045□□
	1500	30	50	2.36	133	93	0.15	LGX2K152M3050□□
200	470	25	35	1.47	424	296	0.15	LGX2D471M2530□□
		30	25	1.56	424	296	0.15	LGX2D471M3025□□
	560	25	35	1.58	355	249	0.15	LGX2D561M2535□□
		30	30	1.65	355	249	0.15	LGX2D561M3030□□
	680	25	40	1.8	293	205	0.15	LGX2D681M2540□□
		30	30	1.82	293	205	0.15	LGX2D681M3030□□
	820	30	35	1.99	243	170	0.15	LGX2D821M3035□□
	1000	22	50	2.17	199	139	0.15	LGX2D102M2250□□
		30	40	2.21	199	139	0.15	LGX2D102M3040□□
	1200	25	45	2.22	166	116	0.15	LGX2D122M2545□□
		30	40	2.28	166	116	0.15	LGX2D122M3040□□
	1500	30	50	2.59	133	93	0.15	LGX2D152M3050□□
		35	40	2.64	133	93	0.15	LGX2D152M3540□□
2200	1800	35	45	2.7	111	77	0.15	LGX2D182M3545□□
	2200	35	50	3.23	91	63	0.15	LGX2D222M3550□□

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 105°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
250	330	22	40	1.2	603	422	0.15	LGX2E331M2240□□
		25	30	1.3	603	422	0.15	LGX2E331M2530□□
	390	25	35	1.41	510	357	0.15	LGX2E391M2535□□
	470	25	40	1.52	424	296	0.15	LGX2E471M2540□□
		30	30	1.56	424	296	0.15	LGX2E471M3030□□
	560	25	45	1.59	355	249	0.15	LGX2E561M2545□□
		30	30	1.61	355	249	0.15	LGX2E561M3030□□
	680	25	50	1.66	293	205	0.15	LGX2E681M2550□□
		30	35	1.76	293	205	0.15	LGX2E681M3035□□
	820	30	40	1.83	243	170	0.15	LGX2E821M3040□□
		35	35	1.82	243	170	0.15	LGX2E821M3535□□
	1000	30	50	1.87	199	139	0.15	LGX2E102M3050□□
		35	40	1.99	199	139	0.15	LGX2E102M3540□□
	1200	35	45	2.1	166	116	0.15	LGX2E122M3545□□
315	180	22	40	0.78	1106	608	0.15	LGX2F181M2240□□
		25	25	0.85	1106	608	0.15	LGX2F181M2525□□
	220	22	45	0.91	905	498	0.15	LGX2F221M2245□□
		25	30	0.94	905	498	0.15	LGX2F221M2530□□
	270	25	35	1	737	406	0.15	LGX2F271M2535□□
		30	25	0.98	737	406	0.15	LGX2F271M3025□□
	330	30	30	1.13	603	332	0.15	LGX2F331M3030□□
	390	30	35	1.20	510	281	0.15	LGX2F391M3035□□
	470	30	35	1.28	424	233	0.15	LGX2F471M3035□□
	560	30	40	1.46	355	196	0.15	LGX2F561M3040□□
	680	30	45	1.85	293	161	0.15	LGX2F681M3045□□
		35	35	1.88	293	161	0.15	LGX2F681M3535□□
	820	30	50	2.1	242	133	0.15	LGX2F821M3050□□
		35	40	2.15	242	133	0.15	LGX2F821M3540□□
350	1000	30	55	2.42	199	109	0.15	LGX2F102M3055□□
		35	45	2.47	199	109	0.15	LGX2F102M3545□□
	1200	35	50	2.6	166	91	0.15	LGX2F122M3550□□
	150	25	30	0.82	1327	730	0.15	LGX2V151M2530□□
	180	25	35	0.89	1106	608	0.15	LGX2V181M2535□□
	220	25	40	0.97	905	498	0.15	LGX2V221M2540□□
		30	30	0.98	905	498	0.15	LGX2V221M3030□□
	270	25	45	1.01	737	406	0.15	LGX2V271M2545□□
		30	30	1.05	737	406	0.15	LGX2V271M3030□□
	330	25	45	1.16	603	332	0.15	LGX2V331M2545□□
		30	40	1.19	603	332	0.15	LGX2V331M3040□□
	390	25	45	1.26	510	281	0.15	LGX2V391M2545□□
		30	40	1.29	510	281	0.15	LGX2V391M3040□□
	470	30	50	1.35	424	233	0.15	LGX2V471M3050□□
		35	40	1.41	424	233	0.15	LGX2V471M3540□□
350	560	30	50	1.47	355	196	0.15	LGX2V561M3050□□
	560	35	50	1.51	355	196	0.15	LGX2V561M3550□□
	680	30	55	1.92	293	161	0.15	LGX2V681M3055□□
		35	50	1.97	293	161	0.15	LGX2V681M3550□□
	820	35	60	2.25	242	133	0.15	LGX2V821M3560□□
	1000	35	60	2.5	199	109	0.15	LGX2V102M3560□□

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 105°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
400	120	22	30	0.64	1659	863	0.15	LGX2G121M2230□□
		25	25	0.7	1659	863	0.15	LGX2G121M2525□□
	150	25	30	0.73	1327	690	0.15	LGX2G151M2530□□
		30	25	0.75	1327	690	0.15	LGX2G151M3025□□
	180	25	35	0.82	1106	575	0.15	LGX2G181M2535□□
		30	25	0.85	1106	575	0.15	LGX2G181M3025□□
	220	25	40	0.87	905	471	0.15	LGX2G221M2540□□
		30	30	0.96	905	471	0.15	LGX2G221M3030□□
	270	22	40	0.94	737	383	0.15	LGX2G271M2240□□
		30	35	0.99	737	383	0.15	LGX2G271M3035□□
	330	25	50	1.08	603	314	0.15	LGX2G331M2550□□
		30	40	1.11	603	314	0.15	LGX2G331M3040□□
	390	25	60	1.13	510	265	0.15	LGX2G391M2560□□
		30	45	1.15	510	265	0.15	LGX2G391M3045□□
	470	30	50	1.28	424	220	0.15	LGX2G471M3050□□
		35	35	1.31	424	220	0.15	LGX2G471M3535□□
	560	30	50	1.5	355	185	0.15	LGX2G561M3050□□
		35	40	1.65	355	185	0.15	LGX2G561M3540□□
	680	35	50	1.9	293	153	0.15	LGX2G681M3550□□
	820	35	50	2.1	242	126	0.15	LGX2G821M3550□□
		35	60	2.2	242	126	0.15	LGX2G821M3560□□
420	1000	30	70	2.5	199	109	0.15	LGX2G102M3070□□
		35	60	2.6	199	109	0.15	LGX2G102M3560□□
	120	25	30	0.72	2212	1106	0.20	LGX2P121M2530□□
	150	25	30	0.8	1769	885	0.20	LGX2P151M2530□□
	180	30	30	0.85	1475	737	0.20	LGX2P181M3030□□
	220	30	30	0.96	1206	603	0.20	LGX2P221M3030□□
	270	30	35	1.06	983	492	0.20	LGX2P271M3035□□
	330	30	40	1.14	804	402	0.20	LGX2P331M3040□□
		35	30	1.2	804	402	0.20	LGX2P331M3530□□
	390	30	45	1.25	681	340	0.20	LGX2P391M3045□□
	470	30	50	1.28	565	282	0.20	LGX2P471M3050□□
		35	40	1.31	565	282	0.20	LGX2P471M3540□□
	560	30	50	1.45	473	237	0.20	LGX2P561M3050□□
		35	45	1.5	473	237	0.20	LGX2P561M3545□□
	680	35	50	1.9	391	196	0.20	LGX2P681M3550□□
	820	35	60	2.2	324	162	0.20	LGX2P821M3560□□
	1000	35	65	2.6	265	139	0.20	LGX2P102M3565□□

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 105°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
450	120	22	35	0.73	2212	1106	0.20	LGX2W121M2235□□
		25	25	0.75	2212	1106	0.20	LGX2W121M2525□□
	150	25	30	0.82	1769	885	0.20	LGX2W151M2530□□
	180	30	30	0.86	1474	737	0.20	LGX2W181M3030□□
	220	22	50	0.94	1206	603	0.20	LGX2W221M2250□□
		30	30	0.95	1206	603	0.20	LGX2W221M3030□□
	270	30	30	1.11	983	492	0.20	LGX2W271M3030□□
		30	35	1.15	983	492	0.20	LGX2W271M3035□□
	330	30	40	1.25	804	402	0.20	LGX2W331M3040□□
		35	30	1.26	804	402	0.20	LGX2W331M3530□□
	390	30	40	1.31	68T	340	0.20	LGX2W391M3040□□
		35	35	1.36	681	340	0.20	LGX2W391M3535□□
	470	30	45	1.5	565	282	0.20	LGX2W471M3045□□
		35	45	1.55	565	282	0.20	LGX2W471M3545□□
		35	50	1.5	565	282	0.20	LGX2W471M3550□□
	560	30	50	1.65	473	237	0.20	LGX2W561M3050□□
		35	50	1.7	473	237	0.20	LGX2W561M3550□□
	680	35	50	1.95	391	196	0.20	LGX2W681M3550□□
		35	60	2	391	196	0.20	LGX2W681M3560□□
	820	35	60	2.15	324	162	0.20	LGX2W821M3560□□
		35	65	2.2	324	162	0.20	LGX2W821M3565□□
	1000	35	70	2.6	265	139	0.20	LGX2W102M3570□□
500	100	22	35	0.67	2654	1327	0.20	LGX2H101M2235□□
	120	22	50	0.77	2212	1106	0.20	LGX2H121M2250□□
		25	35	0.81	2212	1106	0.20	LGX2H121M2535□□
	150	25	40	0.85	1769	885	0.20	LGX2H151M2540□□
		30	30	0.88	1769	885	0.20	LGX2H151M3030□□
	180	25	50	1.01	1474	737	0.20	LGX2H181M2550□□
		30	35	1.06	1474	737	0.20	LGX2H181M3035□□
	220	30	35	1.12	1206	603	0.20	LGX2H221M3035□□
		35	30	1.17	1206	603	0.20	LGX2H221M3530□□
	270	30	40	1.29	983	492	0.20	LGX2H271M3040□□
		35	35	1.34	983	492	0.20	LGX2H271M3535□□
	330	35	45	1.4	804	402	0.20	LGX2H331M3545□□
	390	35	50	1.6	681	340	0.20	LGX2H391M3550□□
	470	35	50	1.8	565	282	0.20	LGX2H471M3550□□
		35	60	1.8	565	282	0.20	LGX2H471M3560□□
	560	35	60	1.9	473	237	0.20	LGX2H561M3560□□
	680	35	70	2.2	391	196	0.20	LGX2H681M3570□□
550	150	30	35	0.86	1769	885	0.20	LGX2L151M3035□□
	180	30	40	1.06	1474	737	0.20	LGX2L181M3040□□
		35	30	1.11	1474	737	0.20	LGX2L181M3530□□
	220	30	50	1.18	1206	603	0.20	LGX2L221M3050□□
		35	35	1.23	1206	603	0.20	LGX2L221M3535□□
	270	35	45	1.31	983	492	0.20	LGX2L271M3545□□
	330	35	50	1.5	804	402	0.20	LGX2L331M3550□□
	390	35	60	1.67	681	340	0.20	LGX2L391M3560□□
	470	35	60	1.9	565	282	0.20	LGX2L471M3560□□
	470	35	70	1.95	565	282	0.20	LGX2L471M3570□□
	560	35	80	2.1	473	237	0.20	LGX2L561M3580□□