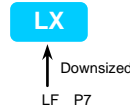


# LX SERIES



- Downsized
- Endurance with ripple current: 2000 hours at 105°C
- Rated voltage range: 160V-450V

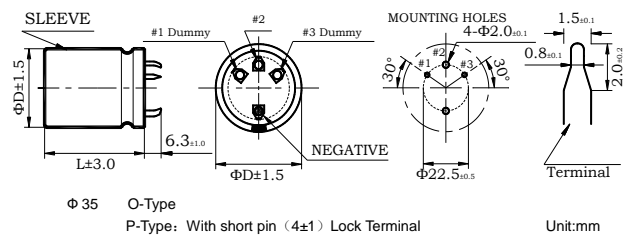
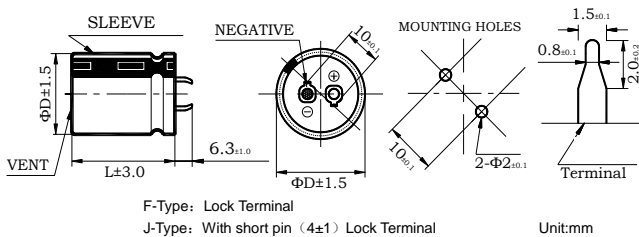


## ◆ SPECIFICATIONS

Items	Characteristics																
Operating Temperature Range	-25~+85°C																
Rated Working Voltage Range	160~450V																
Capacitance Tolerance	±20% (20°C, 120Hz)																
Dissipation Factor (MAX) 20°C, 120Hz	<table border="1"> <tr> <td>U<sub>R</sub>(V)</td> <td>160</td> <td>200</td> <td>250</td> <td>315</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>tanδ</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.18</td> <td>0.18</td> <td>0.20</td> </tr> </table>	U <sub>R</sub> (V)	160	200	250	315	350	400	450	tanδ	0.15	0.15	0.15	0.15	0.18	0.18	0.20
	U <sub>R</sub> (V)	160	200	250	315	350	400	450									
tanδ	0.15	0.15	0.15	0.15	0.18	0.18	0.20										
Impedance Ratio (MAX) 120Hz	<table border="1"> <tr> <td>U<sub>R</sub>(V)</td> <td>160</td> <td>200</td> <td>250</td> <td>315</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>Z-25°C/20°C</td> <td>4</td> <td>4</td> <td>4</td> <td>7</td> <td>7</td> <td>7</td> <td>8</td> </tr> </table>	U <sub>R</sub> (V)	160	200	250	315	350	400	450	Z-25°C/20°C	4	4	4	7	7	7	8
	U <sub>R</sub> (V)	160	200	250	315	350	400	450									
Z-25°C/20°C	4	4	4	7	7	7	8										
Leakage Current (MAX)	I=0.01C <sub>R</sub> U <sub>R</sub> or 1.5mA whichever is minimum. (at 20°C, After 5 minutes application of rated voltage) I=Leakage Current(μA)      U <sub>R</sub> =Rated Voltage(V)      C <sub>R</sub> =Rated Capacitance(μF)																

	Useful Life		Load Life	Endurance Test	Shelf Life
Life Time	3000h	>180000h	2000h	2000h	1000h
Leakage Current	≤ Specified value		≤ Specified value	≤ Specified value	≤ Specified value
TgδChange	≤300% of specified value		≤200% of specified value	≤ 200% of specified value	≤ 200% of specified value
Capacitance Change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value
Condition Applied Voltage Applied Ripple Current Applied Temperature Failure Rate Level	U <sub>R</sub> I <sub>R</sub> 85°C ≤1% Failure rate	U <sub>R</sub> 1.4×I <sub>R</sub> 40°C ≤1% Failure rate	U <sub>R</sub> I <sub>R</sub> 85°C 0%	U <sub>R</sub> I <sub>R</sub> =0 85°C 0%	U <sub>R</sub> =0 I <sub>R</sub> =0 85°C 0% Back up to 20 °C and placed more than 24 hours. U <sub>R</sub> to be applied for 60 min before measurement.

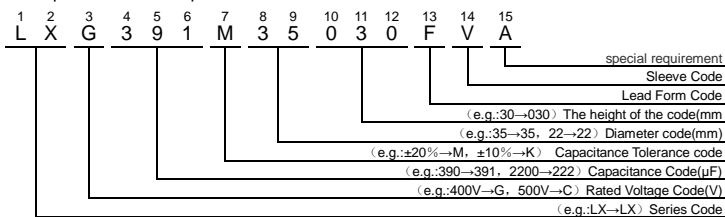
- ◆ Dimensions
- Terminal Code



● Please consult to us for the terminal type not displayed in content.

## ◆ PART NUMBER SYSTEM

● Example LX 400V390μF Φ35×30 ±20%



## ◆ Rated Ripple Current Multiplies

● Frequency coefficient

Rated voltage (v)	Frequency (Hz)				
	50 (60)	100 (120)	300	1k	≥10k
160~250VV	0.80	1.00	1.17	1.32	1.50
315~450VV	0.70	1.00	1.16	1.30	1.41

● Temperature coefficient

Rated voltage (v)	Temperature (°C)			
	+40	+55	+70	+85
160~450VV	1.7	1.5	1.3	1.0

# LX SERIES

## ◆ Standard Ratings

WV <sub>DC</sub> (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20°C/120Hz	Ripple Current 85°C/120Hz (Arms)	Catalog Part Number
160 (200)	560	22×25	0.15	2.25	LXN561M22025□VA
	680	22×30	0.15	2.50	LXN681M22030□VA
	820	22×35	0.15	2.75	LXN821M22035□VA
	1000	22×40	0.15	3.00	LXN102M22040□VA
	1000	25×30	0.15	3.00	LXN102M25030□VA
	1200	22×45	0.15	3.25	LXN122M22045□VA
	1200	25×35	0.15	3.25	LXN122M25035□VA
	1200	30×25	0.15	3.25	LXN122M30025□VA
	1500	22×50	0.15	3.73	LXN152M22050□VA
	1500	25×40	0.15	3.73	LXN152M25040□VA
	1500	30×30	0.15	3.73	LXN152M30030□VA
	1500	35×25	0.15	3.73	LXN152M35025□VA
	1800	25×45	0.15	4.20	LXN182M25045□VA
	1800	30×35	0.15	4.20	LXN182M30035□VA
	1800	35×30	0.15	4.20	LXN182M35030□VA
	2200	30×40	0.15	4.78	LXN222M30040□VA
2200	35×35	0.15	4.78	LXN222M35035□VA	
2700	35×40	0.15	5.45	LXN272M35040□VA	
3300	35×45	0.15	5.75	LXN332M35045□VA	
3900	35×50	0.15	6.00	LXN392M35050□VA	
200 (250)	390	22×25	0.15	1.68	LXL391M22025□VA
	470	22×30	0.15	1.85	LXL471M22030□VA
	560	22×30	0.15	2.43	LXL561M22030□VA
	560	25×25	0.15	2.43	LXL561M25025□VA
	680	22×35	0.15	2.68	LXL681M22035□VA
	680	22×40	0.15	2.68	LXL681M22040□VA
	820	25×30	0.15	2.93	LXL821M25030□VA
	820	30×25	0.15	2.93	LXL821M30025□VA
	820	22×45	0.15	2.93	LXL821M22045□VA
	1000	25×35	0.15	3.25	LXL102M25035□VA
	1000	22×50	0.15	3.25	LXL102M22050□VA
	1000	30×30	0.15	3.25	LXL102M30030□VA
	1000	35×25	0.15	3.25	LXL102M35025□VA
	1200	25×45	0.15	3.50	LXL122M25045□VA
	1200	30×35	0.15	3.50	LXL122M30035□VA
	1200	35×30	0.15	3.50	LXL122M35030□VA
	1500	25×50	0.15	3.87	LXL152M25050□VA
	1500	30×40	0.15	3.87	LXL152M30040□VA
	1500	30×45	0.15	3.87	LXL152M30045□VA
	1800	30×50	0.15	4.32	LXL182M30050□VA
1800	30×50	0.15	4.32	LXL182M30050□VA	
2200	35×40	0.15	4.92	LXL222M35040□VA	
2200	35×45	0.15	4.92	LXL222M35045□VA	
2700	35×50	0.15	5.45	LXL272M35050□VA	
250 (300)	270	22×25	0.15	1.31	LXJ271M22025□VA
	330	22×30	0.15	1.75	LXJ331M22030□VA
	390	22×30	0.15	1.91	LXJ391M22030□VA
	390	25×25	0.15	1.91	LXJ391M25025□VA
	470	22×35	0.15	2.11	LXJ471M22035□VA
	470	25×30	0.15	2.11	LXJ471M25030□VA
	560	22×40	0.15	2.25	LXJ561M22040□VA
	560	25×30	0.15	2.25	LXJ561M25030□VA
	560	30×25	0.15	2.25	LXJ561M30025□VA
	680	22×45	0.15	2.50	LXJ681M22045□VA
	680	25×35	0.15	2.50	LXJ681M25035□VA
	680	30×30	0.15	2.50	LXJ681M30030□VA
	820	22×50	0.15	2.77	LXJ821M22050□VA
	820	25×40	0.15	2.77	LXJ821M25040□VA

WV <sub>DC</sub> (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20°C/120Hz	Ripple Current 85°C/120Hz (Arms)	Catalog Part Number	
250 (300)	820	30×30	0.15	2.77	LXJ821M30030□VA	
	820	35×25	0.15	2.77	LXJ821M35025□VA	
	1000	25×45	0.15	3.32	LXJ102M25045□VA	
	1000	30×35	0.15	3.32	LXJ102M30035□VA	
	1000	35×30	0.15	3.32	LXJ102M35030□VA	
	1200	30×40	0.15	3.53	LXJ122M30040□VA	
	1200	35×35	0.15	3.53	LXJ122M35035□VA	
	1500	30×50	0.15	4.04	LXJ152M30050□VA	
	1500	35×40	0.15	4.04	LXJ152M35040□VA	
	1800	35×45	0.15	4.55	LXJ182M35045□VA	
	315 (365)	180	22×25	0.15	1.21	LXI181M22025□VA
		220	22×30	0.15	1.41	LXI221M22030□VA
		270	22×30	0.15	1.60	LXI271M22030□VA
		330	22×40	0.15	1.82	LXI331M22040□VA
		330	25×30	0.15	1.82	LXI331M25030□VA
		330	30×25	0.15	1.82	LXI331M30025□VA
		390	22×45	0.15	2.01	LXI391M22045□VA
		390	25×35	0.15	2.01	LXI391M25035□VA
390		30×30	0.15	2.01	LXI391M30030□VA	
470		22×50	0.15	2.27	LXI471M22050□VA	
470		25×40	0.15	2.27	LXI471M25040□VA	
470		30×30	0.15	2.27	LXI471M30030□VA	
470		35×25	0.15	2.27	LXI471M35025□VA	
560		25×45	0.15	2.56	LXI561M25045□VA	
560		30×35	0.15	2.56	LXI561M30035□VA	
560		35×30	0.15	2.56	LXI561M35030□VA	
680		30×40	0.15	2.87	LXI681M30040□VA	
680		35×35	0.15	2.87	LXI681M35035□VA	
820	30×45	0.15	3.25	LXI821M30045□VA		
820	35×40	0.15	3.25	LXI821M35040□VA		
1000	30×50	0.15	3.63	LXI102M30050□VA		
1000	35×45	0.15	3.63	LXI102M35045□VA		
1200	35×50	0.15	3.95	LXI122M35050□VA		
1500	35×60	0.15	4.60	LXI152M35060□VA		
350 (400)	150	22×25	0.18	1.12	LXH151M22025□VA	
	180	22×30	0.18	1.22	LXH181M22030□VA	
	220	22×35	0.18	1.44	LXH221M22035□VA	
	270	22×40	0.18	1.66	LXH271M22040□VA	
	270	25×30	0.18	1.66	LXH271M25030□VA	
	330	22×45	0.18	1.88	LXH331M22045□VA	
	330	25×35	0.18	1.88	LXH331M25035□VA	
	390	22×50	0.18	2.06	LXH391M22050□VA	
	390	25×40	0.18	2.06	LXH391M25040□VA	
	390	30×30	0.18	2.06	LXH391M30030□VA	
	390	35×25	0.18	2.06	LXH391M35025□VA	
	470	25×45	0.18	2.40	LXH471M25045□VA	
	470	30×35	0.18	2.40	LXH471M30035□VA	
	470	35×30	0.18	2.40	LXH471M35030□VA	
	560	25×50	0.18	2.60	LXH561M25050□VA	
	560	30×40	0.18	2.60	LXH561M30040□VA	
	560	35×30	0.18	2.60	LXH561M35030□VA	
	680	30×45	0.18	2.96	LXH681M30045□VA	
680	35×35	0.18	2.96	LXH681M35035□VA		
820	30×50	0.18	3.25	LXH821M30050□VA		
820	35×45	0.18	3.25	LXH821M35045□VA		
1000	35×50	0.18	3.54	LXH102M35050□VA		
1200	35×55	0.18	4.03	LXH122M35055□VA		
1500	35×65	0.18	4.84	LXH152M35065□VA		

\*□Enter the appropriate terminal code

# LX SERIES

## ◆ Standard Ratings

WV <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	tan $\delta$ 20°C/120Hz	Ripple Current 85°C/120Hz (Ams)	Catalog Part Number
400 (450)	120	22×25	0.18	1.02	LXG121M22025□VA
	150	22×30	0.18	1.16	LXG151M22030□VA
	180	22×35	0.18	1.44	LXG181M22035□VA
	220	22×40	0.18	1.49	LXG221M22040□VA
	220	25×30	0.18	1.49	LXG221M25030□VA
	270	22×45	0.18	1.67	LXG271M22045□VA
	270	25×35	0.18	1.67	LXG271M25035□VA
	270	30×25	0.18	1.67	LXG271M30025□VA
	330	22×50	0.18	1.90	LXG331M22050□VA
	330	25×40	0.18	1.90	LXG331M25040□VA
	330	30×30	0.18	1.90	LXG331M30030□VA
	330	35×25	0.18	1.90	LXG331M35025□VA
	390	25×45	0.18	2.13	LXG391M25045□VA
	390	30×35	0.18	2.13	LXG391M30035□VA
	390	35×30	0.18	2.13	LXG391M35030□VA
	470	25×50	0.18	2.39	LXG471M25050□VA
	470	30×40	0.18	2.39	LXG471M30040□VA
	470	35×30	0.18	2.39	LXG471M35030□VA
	560	30×45	0.18	2.69	LXG561M30045□VA
	560	35×35	0.18	2.69	LXG561M35035□VA
680	30×50	0.18	2.96	LXG681M30050□VA	
680	35×40	0.18	2.96	LXG681M35040□VA	
820	35×45	0.18	3.25	LXG821M35045□VA	
1000	35×50	0.18	3.75	LXG102M35050□VA	
1200	35×60	0.18	4.40	LXG122M35060□VA	
1500	35×75	0.18	5.30	LXG152M35075□VA	

WV <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	tan $\delta$ 20°C/120Hz	Ripple Current 85°C/120Hz (Ams)	Catalog Part Number
450 (500)	82	22×25	0.20	0.83	LXE820M22025□VA
	100	22×25	0.20	0.93	LXE101M22025□VA
	120	22×30	0.20	1.04	LXE121M22030□VA
	150	22×35	0.20	1.19	LXE151M22035□VA
	150	25×25	0.20	1.19	LXE151M25025□VA
	180	22×40	0.20	1.38	LXE181M22040□VA
	180	25×30	0.20	1.35	LXE181M25030□VA
	220	22×45	0.20	1.55	LXE221M22045□VA
	220	25×40	0.20	1.55	LXE221M25040□VA
	220	30×30	0.20	1.55	LXE221M30030□VA
	220	35×25	0.20	1.55	LXE221M35025□VA
	270	22×50	0.20	1.78	LXE271M22050□VA
	270	25×40	0.20	1.78	LXE271M25040□VA
	270	30×30	0.20	1.78	LXE271M30030□VA
	330	25×50	0.20	2.01	LXE331M25050□VA
	330	30×40	0.20	2.01	LXE331M30040□VA
	330	35×30	0.20	2.01	LXE331M35030□VA
	390	30×40	0.20	2.24	LXE391M30040□VA
	390	35×35	0.20	2.24	LXE391M35035□VA
	470	30×45	0.20	2.53	LXE471M30045□VA
470	35×40	0.20	2.53	LXE471M35040□VA	
560	30×50	0.20	2.82	LXE561M30050□VA	
560	35×45	0.20	2.82	LXE561M35045□VA	
680	35×45	0.20	3.10	LXE681M35045□VA	
820	35×50	0.20	3.60	LXE821M35050□VA	
1000	35×60	0.20	4.30	LXE102M35060□VA	

\*\*□Enter the appropriate terminal code

\* Please ask for advice for other sizes.

\*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. the useful life will be half of original life when temp rises every 5°C. Please reduce the ripple current when using capacitor.