

LXM Series

- Endurance with ripple current : 105°C 7000 hours
- Non solvent-proof type

LXM

↑ longer life
LXQ

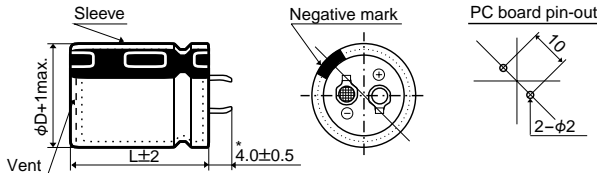


◆ SPECIFICATIONS

Items	Characteristics		
Category	-25 to +105°C		
Temperature Range			
Rated Voltage Range	160 to 450V _{dc}		
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)		
Leakage Current	I ≤ 3√CV Where, I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V) (at 20°C after 5 minutes)		
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	160 to 400V	420 & 450V
	tanδ (Max.)	0.15	0.20
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	160 to 400V	420 & 450V
	Z(-25°C)/Z(+20°C)	4	8
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 7000 hours at 105°C.		
	Capacitance change	≤ ±20% of the initial value	
	D.F. (tanδ)	≤ 250% of the initial specified value	
	Leakage current	≤ The initial specified value	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.		
	Capacitance change	≤ ±15% of the initial value	
	D.F. (tanδ)	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	

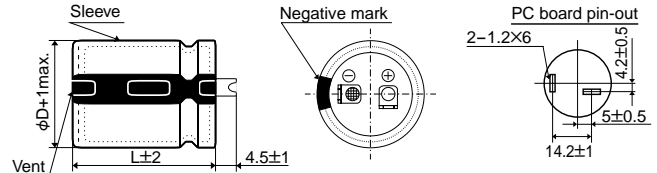
◆ DIMENSIONS [mm]

● Standard Terminal Type : VSSN (φ22 to φ35)

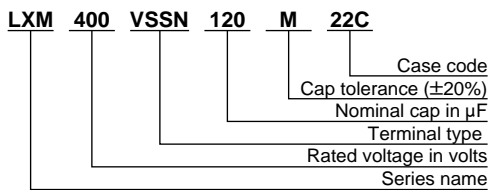


*φD=35mm : 3.5±0.5mm

● Terminal Type : LISN (φ35)



◆ PART NUMBERING SYSTEM



◆ CASE CODE [mm]

Case code	Case size φDXL	Case code	Case size φDXL	Case code	Case size φDXL	Case code	Case size φDXL
22A	22×25	25A	25.4×25	30A	30×25	35A	35×25
22B	22×30	25B	25.4×30	30B	30×30	35B	35×30
22C	22×35	25C	25.4×35	30C	30×35	35C	35×35
22D	22×40	25D	25.4×40	30D	30×40	35D	35×40
22E	22×45	25E	25.4×45	30E	30×45	35E	35×45
22F	22×50	25F	25.4×50	30F	30×50	35F	35×50

◆STANDARD RATINGS

μF	V _{dc} φD	160				180			
		22	25	30	35	22	25	30	35
270						22×25 1.00			
330		22×25 1.11				22×30 1.16			
390		22×30 1.26				22×30 1.26	25.4×25 1.26		
470		22×30 1.39	25.4×25 1.38			22×35 1.42	25.4×30 1.42		
560		22×35 1.55	25.4×30 1.55			22×40 1.59	25.4×30 1.55	30×25 1.58	
680		22×40 1.75	25.4×35 1.78	30×25 1.74		22×45 1.79	25.4×35 1.78	30×30 1.79	
820		22×50 1.97	25.4×40 2.01	30×30 1.96			25.4×40 2.01	30×35 2.04	
1,000			25.4×45 2.27	30×35 2.26			25.4×50 2.32	30×35 2.26	35×30 2.30
1,200			25.4×50 2.54	30×40 2.56	35×30 2.52			30×45 2.65	35×35 2.58
1,500				30×45 2.96	35×35 2.89			30×50 3.03	35×40 3.01
1,800				30×50 3.32	35×40 3.30				35×45 3.41
2,200					35×50 3.87	← Upper : Case size φD×L (mm) ← Lower : Rated ripple current (Arms) at 105°C, 120Hz			35×50 3.87

μF	V _{dc} φD	200				220			
		22	25	30	35	22	25	30	35
220		22×25 0.90				22×25 0.90			
270		22×30 1.05				22×30 1.05			
330		22×30 1.16	25.4×25 1.16			22×35 1.19	25.4×25 1.16		
390		22×35 1.29	25.4×30 1.29			22×40 1.33	25.4×30 1.29		
470		22×40 1.46	25.4×30 1.42	30×25 1.45		22×45 1.49	25.4×35 1.48	30×25 1.45	
560		22×45 1.63	25.4×35 1.62	30×30 1.62		22×50 1.63	25.4×40 1.71	30×30 1.62	
680			25.4×40 1.83	30×30 1.79			25.4×45 1.87	30×35 1.86	
820			25.4×45 2.06	30×35 2.04			25.4×50 2.10	30×40 2.12	35×30 2.08
1,000				30×45 2.42	35×30 2.30			30×50 2.48	35×40 2.46
1,200				30×50 2.71	35×40 2.70				35×45 2.78
1,500					35×45 3.11				35×50 3.20
1,800					35×50 3.50	← Upper : Case size φD×L (mm) ← Lower : Rated ripple current (Arms) at 105°C, 120Hz			



◆STANDARD RATINGS

μF	V _{dc} φD	250				315			
		22	25	30	35	22	25	30	35
100						22×25 0.67			
120						22×30 0.77			
150						22×30 0.86	25.4×25 0.85		
180		22×25 0.82				22×35 0.96	25.4×30 0.96		
220		22×30 0.95				22×40 1.09	25.4×30 1.06	30×25 1.08	
270		22×35 1.08	25.4×25 1.05			22×45 1.24	25.4×35 1.23	30×30 1.23	
330		22×40 1.22	25.4×30 1.19				25.4×40 1.40	30×35 1.42	35×30 1.45
390		22×45 1.36	25.4×35 1.35	30×25 1.32			25.4×50 1.59	30×35 1.54	35×30 1.57
470		22×50 1.49	25.4×40 1.52	30×30 1.49				30×45 1.81	35×35 1.77
560			25.4×45 1.70	30×35 1.69				30×50 2.03	35×40 2.02
680			25.4×50 1.91	30×40 1.93	35×30 1.90				35×45 2.29
820				30×45 2.19	35×35 2.13				35×50 2.59
1,000					35×40 2.46				
1,200					35×50 2.86	← Upper : Case size φD×L (mm) ← Lower : Rated ripple current (Arms) at 105°C, 120Hz			

μF	V _{dc} φD	350				400			
		22	25	30	35	22	25	30	35
68						22×25 0.55			
82						22×30 0.63			
100		22×25 0.67				22×30 0.70	25.4×25 0.70		
120		22×30 0.77	25.4×25 0.76			22×35 0.79	25.4×30 0.79		
150		22×35 0.88	25.4×30 0.88			22×40 0.90	25.4×30 0.88	30×25 0.90	
180		22×40 0.99	25.4×30 0.96	30×25 0.98		22×45 0.99	25.4×35 1.01	30×30 1.01	
220		22×45 1.12	25.4×35 1.11	30×30 1.11			25.4×40 1.14	30×35 1.16	
270			25.4×40 1.26	30×35 1.28			25.4×50 1.32	30×40 1.33	35×30 1.31
330			25.4×45 1.40	30×35 1.42	35×30 1.45			30×45 1.52	35×35 1.48
390				30×40 1.60	35×35 1.61			30×50 1.69	35×40 1.68
470				30×50 1.86	35×40 1.85				35×45 1.91
560					35×40 2.02				35×50 2.14
680					35×50 2.36	← Upper : Case size φD×L (mm) ← Lower : Rated ripple current (Arms) at 105°C, 120Hz			

◆STANDARD RATINGS

μF	V _{dc} φD	420				450			
		22	25	30	35	22	25	30	35
47						22×25 0.46			
56		22×25 0.50				22×30 0.52			
68		22×30 0.58				22×30 0.58	25.4×25 0.58		
82		22×30 0.63	25.4×25 0.63			22×35 0.65	25.4×30 0.65		
100		22×35 0.72	25.4×30 0.72			22×40 0.74	25.4×30 0.72	30×25 0.73	
120		22×40 0.81	25.4×30 0.79	30×25 0.80		22×45 0.83	25.4×35 0.82	30×30 0.82	
150		22×45 0.92	25.4×35 0.92	30×30 0.92			25.4×40 0.94	30×35 0.96	
180			25.4×40 1.03	30×35 1.05			25.4×45 1.06	30×35 1.05	35×30 1.07
220			25.4×50 1.19	30×35 1.16	35×30 1.18			30×40 1.20	35×35 1.21
270				30×45 1.38	35×35 1.34			30×50 1.41	35×40 1.40
330				30×50 1.56	35×40 1.55				35×45 1.60
390					35×45 1.74				35×50 1.79
470					35×50 1.96				

← Upper : Case size φD×L (mm)
← Lower : Rated ripple current (Arms) at 105°C, 120Hz

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
160 to 250V _{dc}	0.81	1.00	1.17	1.32	1.45	1.50
315 to 450V _{dc}	0.77	1.00	1.16	1.30	1.41	1.43