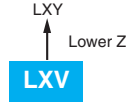


LXV Series

- Low impedance
- Endurance with ripple current : 2,000 to 5,000 hours at 105°C
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

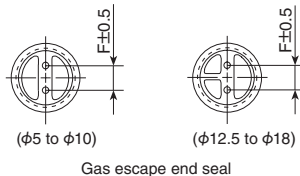
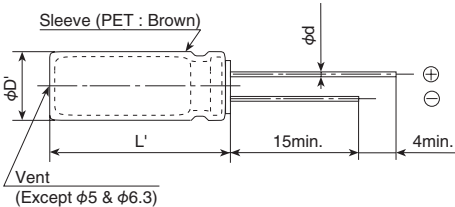


SPECIFICATIONS

Items	Characteristics	
Category	-55 to +105°C	
Temperature Range		
Rated Voltage Range	6.3 to 100V _{dc}	
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)	
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)	
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	6.3V 10V 16V 25V 35V 50V 63V 80V 100V
	tan δ (Max.)	0.22 0.19 0.16 0.14 0.12 0.10 0.10 0.09 0.08
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)	
Low Temperature Characteristics	Capacitance change ΔC (-55°C /+20°C)	0.7min.
	Max. impedance ratio (-55°C /+20°C)	3max.(6.3V _{dc} : 4max.) (at 120Hz)
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 (the peak voltage shall not exceed the rated voltage) for the specified period of time at 105°C.	
	Time	φ 5 to 6.3 : 2,000hours φ 8 & 10: 3,000hours φ 12.5 to φ 18: 5,000hours
	Capacitance change	≤ ±20% of the initial value
	D.F. (tan δ)	≤200% 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 1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.	
	Capacitance change	≤ ±20% of the initial value
	D.F. (tan δ)	≤200% of the initial specified value
	Leakage current	≤The initial specified value

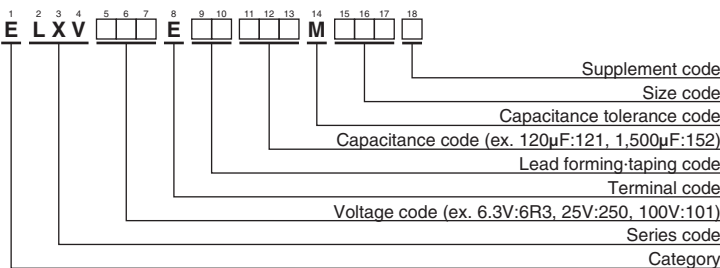
DIMENSIONS [mm]

- Terminal Code : E



φD	5	6.3	8	10	12.5	16	18
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φD'	φD+0.5max.						
L'	L+1.5max.						

PART NUMBERING SYSTEM



Please refer to "Product code guide (radial lead type)"



STANDARD RATINGS

Table with columns: WV (Vdc), Cap (µF), Case size φD×L(mm), Impedance (Ω max./100kHz) at 20°C and -10°C, Rated ripple current (mA rms/105°C, 100kHz), Part No. The table is organized into four main sections based on voltage ratings: 6.3V, 10V, 16V, and 50V. Each section contains multiple rows of capacitor specifications.

□ □ : Enter the appropriate lead forming or taping code. Production of the products shown in [] is scheduled to be discontinued.

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.



◆STANDARD RATINGS

VV (V _{dc})	Cap (μF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mA _{rms} /105°C, 100kHz)	Part No.	VV (V _{dc})	Cap (μF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mA _{rms} /105°C, 100kHz)	Part No.
			20°C	-10°C						20°C	-10°C		
50	82	8×15	0.24	0.72	505	ELXV500E□□820MH15D	80	27	6.3×15	0.62	1.7	220	ELXV800E□□270MF15D
	82	10×12.5	0.16	0.40	530	ELXV500E□□820MJC5S		33	8×12	0.53	1.5	275	ELXV800E□□330MH12D
	120	8×20	0.18	0.52	610	ELXV500E□□121MH20D		39	10×12.5	0.47	1.3	380	ELXV800E□□390MJC5S
	120	10×16	0.12	0.30	755	ELXV500E□□121MJ16S		47	8×15	0.35	0.97	360	ELXV800E□□470MH15D
	180	10×20	0.088	0.22	945	ELXV500E□□181MJ20S		56	8×20	0.27	0.74	490	ELXV800E□□560MH20D
	220	10×25	0.068	0.17	1,150	ELXV500E□□221MJ25S		56	10×16	0.33	0.90	500	ELXV800E□□560MJ16S
	330	10×30	0.059	0.15	1,260	ELXV500E□□331MJ30S		82	10×20	0.26	0.70	620	ELXV800E□□820MJ20S
	330	12.5×20	0.059	0.15	1,190	ELXV500E□□331MK20S		100	10×25	0.19	0.52	795	ELXV800E□□101MJ25S
	470	12.5×25	0.045	0.11	1,500	ELXV500E□□471MK25S		150	10×30	0.15	0.41	955	ELXV800E□□151MJ30S
	560	12.5×30	0.039	0.098	1,720	ELXV500E□□561MK30S		150	12.5×20	0.15	0.41	890	ELXV800E□□151MK20S
	680	12.5×35	0.033	0.083	1,900	ELXV500E□□681MK35S		180	12.5×25	0.11	0.30	1,040	ELXV800E□□181MK25S
	680	16×20	0.043	0.11	1,500	ELXV500E□□681ML20S		270	12.5×30	0.094	0.26	1,270	ELXV800E□□271MK30S
	820	12.5×40	0.029	0.073	2,120	ELXV500E□□821MK40S		270	16×20	0.11	0.30	1,240	ELXV800E□□271ML20S
	820	16×25	0.033	0.083	1,880	ELXV500E□□821ML25S		330	12.5×35	0.087	0.24	1,450	ELXV800E□□331MK35S
	820	18×20	0.039	0.098	1,660	ELXV500E□□821MM20S		330	16×25	0.081	0.22	1,440	ELXV800E□□331ML25S
	1,000	16×30	0.029	0.073	2,150	ELXV500E□□102ML30S		390	12.5×40	0.060	0.17	1,610	ELXV800E□□391MK40S
	1,000	18×25	0.030	0.075	2,020	ELXV500E□□102MM25S		390	18×20	0.085	0.23	1,450	ELXV800E□□391MM20S
	1,200	16×35	0.025	0.063	2,320	ELXV500E□□122ML35S		470	16×30	0.058	0.16	1,790	ELXV800E□□471ML30S
	1,500	16×40	0.021	0.053	2,650	ELXV500E□□152ML40S		470	18×25	0.070	0.19	1,650	ELXV800E□□471MM25S
	1,500	18×30	0.026	0.065	2,340	ELXV500E□□152MM30S		560	16×35	0.052	0.14	2,000	ELXV800E□□561ML35S
1,800	18×35	0.023	0.058	2,620	ELXV500E□□182MM35S	680	16×40	0.041	0.11	2,200	ELXV800E□□681ML40S		
2,200	18×40	0.020	0.050	2,790	ELXV500E□□222MM40S	680	18×30	0.058	0.16	1,850	ELXV800E□□681MM30S		
63	12	5×11.5	1.9	4.8	100	ELXV630E□□120MEB5D	100	5.6	5×11.5	1.9	5.1	100	ELXV101E□□5R6MEB5D
	27	6.3×11.5	1.1	2.8	160	ELXV630E□□270MFB5D		12	6.3×11.5	1.1	3.0	150	ELXV101E□□120MFB5D
	39	6.3×15	0.62	1.6	230	ELXV630E□□390MF15D		18	6.3×15	0.62	1.7	220	ELXV101E□□180MF15D
	47	8×12	0.49	1.3	275	ELXV630E□□470MH12D		22	8×12	0.53	1.5	275	ELXV101E□□220MH12D
	56	10×12.5	0.27	0.68	420	ELXV630E□□560MJC5S		27	10×12.5	0.47	1.3	380	ELXV101E□□270MJC5S
	68	8×15	0.34	0.85	360	ELXV630E□□680MH15D		33	8×15	0.35	0.97	360	ELXV101E□□330MH15D
	68	10×16	0.21	0.53	523	ELXV630E□□680MJ16S		33	10×16	0.33	0.90	500	ELXV101E□□330MJ16S
	82	8×20	0.21	0.53	500	ELXV630E□□820MH20D		39	8×20	0.27	0.74	490	ELXV101E□□390MH20D
	120	10×20	0.16	0.40	650	ELXV630E□□121MJ20S		56	10×20	0.26	0.70	620	ELXV101E□□560MJ20S
	150	10×25	0.13	0.33	780	ELXV630E□□151MJ25S		68	10×25	0.19	0.52	795	ELXV101E□□680MJ25S
	180	10×30	0.10	0.25	960	ELXV630E□□181MJ30S		100	10×30	0.15	0.41	955	ELXV101E□□101MJ30S
	220	12.5×20	0.11	0.28	870	ELXV630E□□221MK20S		100	12.5×20	0.15	0.41	890	ELXV101E□□101MK20S
	270	12.5×25	0.074	0.19	1,150	ELXV630E□□271MK25S		120	12.5×25	0.11	0.30	1,040	ELXV101E□□121MK25S
	390	12.5×30	0.068	0.17	1,280	ELXV630E□□391MK30S		180	12.5×30	0.094	0.26	1,270	ELXV101E□□181MK30S
	390	16×20	0.085	0.22	1,100	ELXV630E□□391ML20S		180	16×20	0.11	0.30	1,240	ELXV101E□□181ML20S
	470	12.5×35	0.063	0.16	1,390	ELXV630E□□471MK35S		220	12.5×35	0.087	0.24	1,450	ELXV101E□□221MK35S
	470	16×25	0.055	0.14	1,480	ELXV630E□□471ML25S		220	16×25	0.081	0.22	1,440	ELXV101E□□221ML25S
	560	12.5×40	0.051	0.13	1,530	ELXV630E□□561MK40S		270	12.5×40	0.060	0.17	1,610	ELXV101E□□271MK40S
	560	18×20	0.085	0.22	1,170	ELXV630E□□561MM20S		270	18×20	0.085	0.23	1,450	ELXV101E□□271MM20S
	680	16×30	0.046	0.12	1,720	ELXV630E□□681ML30S		330	16×30	0.058	0.16	1,790	ELXV101E□□331ML30S
680	18×25	0.055	0.14	1,520	ELXV630E□□681MM25S	330	18×25	0.070	0.19	1,650	ELXV101E□□331MM25S		
820	16×35	0.040	0.10	1,910	ELXV630E□□821ML35S	390	16×35	0.052	0.14	2,000	ELXV101E□□391ML35S		
820	18×30	0.046	0.12	1,770	ELXV630E□□821MM30S	390	18×30	0.058	0.16	1,850	ELXV101E□□391MM30S		
1,000	16×40	0.036	0.09	2,070	ELXV630E□□102ML40S	470	16×40	0.041	0.11	2,200	ELXV101E□□471ML40S		
1,000	18×35	0.040	0.10	1,970	ELXV630E□□102MM35S	560	18×35	0.052	0.14	1,990	ELXV101E□□561MM35S		
1,200	18×40	0.036	0.09	2,130	ELXV630E□□122MM40S	680	18×40	0.041	0.11	2,370	ELXV101E□□681MM40S		
80	8.2	5×11.5	1.9	5.1	100	ELXV800E□□8R2MEB5D							
	18	6.3×11.5	1.1	3.0	150	ELXV800E□□180MFB5D							

□ □ : Enter the appropriate lead forming or taping code.
 Production of the products shown in [] is scheduled to be discontinued.

◆RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

Rated voltage (V _{dc})	Case size φD (mm)	Frequency (Hz)				Rated voltage (V _{dc})	Case size φD (mm)	Frequency (Hz)			
		120	1k	10k	100k			120	1k	10k	100k
6.3 & 10	5 to 8	0.65	0.83	0.95	1.00	35 & 50	5 to 8	0.40	0.66	0.85	1.00
	10 & 12.5	0.70	0.85	0.96	1.00		10 & 12.5	0.50	0.73	0.89	1.00
	16 & 18	0.85	0.92	0.97	1.00		16 & 18	0.60	0.81	0.94	1.00
16 & 25	5 to 8	0.55	0.76	0.91	1.00	63 to 100	5 to 8	0.20	0.55	0.80	1.00
	10 & 12.5	0.65	0.83	0.93	1.00		10 & 12.5	0.35	0.65	0.85	1.00
	16 & 18	0.70	0.87	0.96	1.00		16 & 18	0.50	0.75	0.90	1.00

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current.

For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.
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- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future.
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In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

[Part Numbering System](#)

[Part Numbering System \(Appendix\)](#)

[Standardization](#)

[Available Items by Manufacturing Locations](#)

[Environmental Measures](#)

[Technical Note](#)

[Precautions and Guidelines](#)



[Recommended Soldering Conditions](#)

[Taping, Lead-preforming and Packaging](#)

[Available Terminals for Snap-in and Screw Mount Type](#)

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