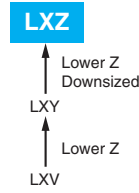




## LXZ Series Upgrade!

- Adoption of innovative electrolyte and new technologies
- Very low impedance at high frequency
- Endurance with ripple current: 2,000 to 8,000 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.

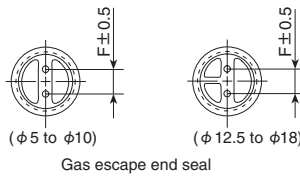
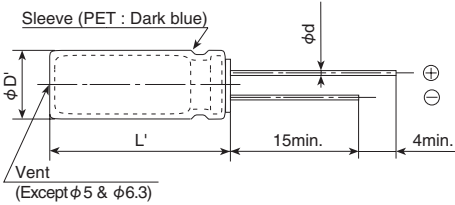


### SPECIFICATIONS

Items	Characteristics																								
<b>Category</b>	-55 to +105°C																								
<b>Temperature Range</b>	-55 to +105°C																								
<b>Rated Voltage Range</b>	6.3 to 63V <sub>dc</sub>																								
<b>Capacitance Tolerance</b>	±20% (M) (at 20°C, 120Hz)																								
<b>Leakage Current</b>	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)																								
<b>Dissipation Factor (tan δ)</b>	<table border="1"> <tr> <td>Rated voltage (V<sub>dc</sub>)</td> <td>6.3V</td> <td>10V</td> <td>16V</td> <td>25V</td> <td>35V</td> <td>50V</td> <td>63V</td> </tr> <tr> <td>tan δ (Max.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> </tr> </table> <p>When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)</p>	Rated voltage (V <sub>dc</sub> )	6.3V	10V	16V	25V	35V	50V	63V	tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.08								
Rated voltage (V <sub>dc</sub> )	6.3V	10V	16V	25V	35V	50V	63V																		
tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.08																		
<b>Endurance</b>	<p>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.</p> <table border="1"> <tr> <td>Time</td> <td>φ5 &amp; 6.3 : 2,000hours</td> <td>φ8 : 3,000hours</td> <td>φ10 : 5,000hours</td> <td>φ12.5 : 7,000hours</td> <td>φ16 &amp; 18 : 8,000hours</td> </tr> <tr> <td>Capacitance change</td> <td colspan="5">≤ ±20% of the initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td colspan="5">≤ 200% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="5">≤ The initial specified value</td> </tr> </table>	Time	φ5 & 6.3 : 2,000hours	φ8 : 3,000hours	φ10 : 5,000hours	φ12.5 : 7,000hours	φ16 & 18 : 8,000hours	Capacitance change	≤ ±20% of the initial value					D.F. (tan δ)	≤ 200% of the initial specified value					Leakage current	≤ The initial specified value				
Time	φ5 & 6.3 : 2,000hours	φ8 : 3,000hours	φ10 : 5,000hours	φ12.5 : 7,000hours	φ16 & 18 : 8,000hours																				
Capacitance change	≤ ±20% of the initial value																								
D.F. (tan δ)	≤ 200% of the initial specified value																								
Leakage current	≤ The initial specified value																								
<b>Shelf Life</b>	<p>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.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>≤ ±20% of the initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>≤ 200% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤ The initial specified value</td> </tr> </table>	Capacitance change	≤ ±20% of the initial value	D.F. (tan δ)	≤ 200% of the initial specified value	Leakage current	≤ The initial specified value																		
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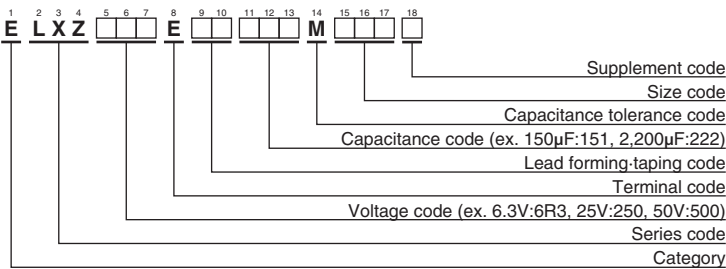
### DIMENSIONS [mm]

#### 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 WV values: 6.3V, 10V, 16V, and 25V, each with sub-sections for different capacitor types (e.g., ELXZ6R3E, ELXZ100E, ELXZ160E, ELXZ250E, ELXZ350E).

□ □ : 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

WV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mA <sub>rms</sub> /105°C, 100kHz)	Part No.	WV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mA <sub>rms</sub> /105°C, 100kHz)	Part No.
			20°C	-10°C						20°C	-10°C		
35	2,700	18×30	0.018	0.036	3,330	ELXZ350E□□272MM30S	50	2,700	18×40	0.020	0.040	3,400	ELXZ500E□□272MM40S
	3,300	16×40	0.015	0.030	3,710	ELXZ350E□□332ML40S		12	5×11.5	1.9	4.0	145	ELXZ630E□□120MEB5D
	3,300	18×35	0.016	0.032	3,680	ELXZ350E□□332MM35S		22	6.3×11.5	1.0	2.0	240	ELXZ630E□□220MFB5D
	3,900	18×40	0.015	0.030	3,800	ELXZ350E□□392MM40S		39	6.3×15	0.61	1.4	330	ELXZ630E□□390MF15D
	4,700	18×40	0.015	0.030	3,800	ELXZ350E□□472MM40S		68	8×12	0.34	0.75	405	ELXZ630E□□680MH12D
50	22	5×11.5	0.90	1.8	155	ELXZ500E□□220MEB5D	100	8×15	0.27	0.65	535	ELXZ630E□□101MH15D	
	47	6.3×11.5	0.45	0.90	260	ELXZ500E□□470MFB5D	100	10×12.5	0.255	0.51	540	ELXZ630E□□101MJC5S	
	68	6.3×15	0.31	0.62	360	ELXZ500E□□680MF15D	120	10×16	0.19	0.38	600	ELXZ630E□□121MJ16S	
	100	8×12	0.22	0.44	485	ELXZ500E□□101MH12D	150	8×20	0.21	0.52	690	ELXZ630E□□151MH20D	
	120	8×15	0.16	0.32	635	ELXZ500E□□121MH15D	180	10×20	0.145	0.29	890	ELXZ630E□□181MJ20S	
	120	10×12.5	0.16	0.32	620	ELXZ500E□□121MJC5S	220	10×25	0.13	0.26	1,050	ELXZ630E□□221MJ25S	
	180	8×20	0.12	0.24	730	ELXZ500E□□181MH20D	330	10×30	0.090	0.18	1,300	ELXZ630E□□331MJ30S	
	180	10×16	0.13	0.26	850	ELXZ500E□□181MJ16S	330	12.5×20	0.085	0.17	1,290	ELXZ630E□□331MK20S	
	220	10×20	0.088	0.18	1,050	ELXZ500E□□221MJ20S	390	12.5×25	0.070	0.14	1,720	ELXZ630E□□391MK25S	
	330	10×25	0.073	0.15	1,250	ELXZ500E□□331MJ25S	470	12.5×30	0.055	0.11	2,090	ELXZ630E□□471MK30S	
	390	10×30	0.054	0.11	1,500	ELXZ500E□□391MJ30S	63	470	16×20	0.059	0.12	1,770	ELXZ630E□□471ML20S
	390	12.5×20	0.059	0.12	1,480	ELXZ500E□□391MK20S		680	12.5×35	0.047	0.094	2,270	ELXZ630E□□681MK35S
	470	12.5×20	0.059	0.12	1,480	ELXZ500E□□471MK20S		680	16×25	0.050	0.10	2,160	ELXZ630E□□681ML25S
	560	12.5×25	0.044	0.088	1,840	ELXZ500E□□561MK25S		680	18×20	0.055	0.11	2,290	ELXZ630E□□681MM20S
	680	12.5×30	0.039	0.078	2,220	ELXZ500E□□681MK30S		820	12.5×40	0.042	0.084	2,560	ELXZ630E□□821MK40S
	680	16×20	0.048	0.096	1,840	ELXZ500E□□681ML20S		820	16×30	0.043	0.086	2,670	ELXZ630E□□821ML30S
	820	12.5×35	0.033	0.066	2,290	ELXZ500E□□821MK35S		820	18×25	0.043	0.086	2,590	ELXZ630E□□821MM25S
	820	18×20	0.042	0.084	1,980	ELXZ500E□□821MM20S		1,000	16×30	0.043	0.086	2,670	ELXZ630E□□102ML30S
	1,000	12.5×40	0.029	0.058	2,500	ELXZ500E□□102MK40S		1,000	16×35	0.036	0.072	2,770	ELXZ630E□□102ML35S
	1,000	16×25	0.034	0.068	2,240	ELXZ500E□□102ML25S		1,200	16×40	0.030	0.060	2,850	ELXZ630E□□122ML40S
	1,200	16×30	0.028	0.056	2,700	ELXZ500E□□122ML30S		1,200	18×30	0.032	0.064	2,950	ELXZ630E□□122MM30S
	1,200	18×25	0.029	0.058	2,610	ELXZ500E□□122MM25S		1,500	18×35	0.030	0.060	3,100	ELXZ630E□□152MM35S
1,500	16×35	0.025	0.050	2,800	ELXZ500E□□152ML35S	1,800		18×40	0.025	0.050	3,210	ELXZ630E□□182MM40S	
1,800	16×40	0.021	0.042	3,200	ELXZ500E□□182ML40S	2,200		18×40	0.025	0.050	3,210	ELXZ630E□□222MM40S	
1,800	18×30	0.025	0.050	3,000	ELXZ500E□□182MM30S	3,300	18×40	0.021	0.042	3,900	ELXZ630E□□332MM40S		
2,200	18×35	0.023	0.046	3,100	ELXZ500E□□222MM35S								

□ □ : 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

Capacitance(μF)	Frequency(Hz)			
	120	1k	10k	100k
12 to 180	0.40	0.75	0.90	1.00
220 to 560	0.50	0.85	0.94	1.00
680 to 1,800	0.60	0.87	0.95	1.00
2,200 to 3,900	0.75	0.90	0.95	1.00
4,700 to 18,000	0.85	0.95	0.98	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.  
Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.
- We strongly recommend our customers to purchase Nippon Chemi-Con products only through our official sales channels. We assume no responsibility for any defects or damages caused by using products purchased from outside our official sales channel or of counterfeit goods. In addition, we will ask the customer to pay the investigation cost for products purchased outside our official sales channel.
- 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.  
The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.  
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](#)