LXZ

LXY

Lower Z Downsized

Lower Z



• Adoption of innovative electrolyte and new technologies

- ●Endurance with ripple current : 2,000 to 8,000 hours at 105℃
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)

RoHS2 Compliant

●AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information. LXV

## **\$**SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-55 to +105℃								
Rated Voltage Range	10 to 63V <sub>dc</sub>								
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	Rated voltage (Vdc)	10V 16V 25V 35V 50V 63V							
$(\tan \delta)$	tanδ (Max.)	0.19 0.16 0.14 0.12 0.10 0.10							
	When nominal capacitan	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	Z(-55°C)/Z(+20°C)	10 to 50V <sub>dc</sub> : 3max. 63V <sub>dc</sub> : 6max.							
(Max. Impedance Ratio)		(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 φ5 & 6.3 : 2,000hours φ8 : 3,000hours φ10 : 5,000hours φ12.5 : 7,000hours φ16 & 18 : 8,00								
	Capacitance change	$\leq \pm 20\%$ of the initial value							
	D.F. $(\tan \delta)$ $\leq 200\%$ of the initial specified value								
	Leakage current	urrent ≦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	$\leq \pm 20\%$ of the initial value							
	D.F. (tan δ )	≦200% of the initial specified value							
	Leakage current	≦The initial specified value							

## **DIMENSIONS** [mm]





## ◆PART NUMBERING SYSTEM



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

## **♦**RATED RIPPLE CURRENT MULTIPLIERS

#### Frequency Multipliers

Capacitance(µF) Frequency(Hz)	120	1k	10k	100k
10 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 8,200	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.

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## **♦STANDARD RATINGS**

WV (Vdc)	Cap (µF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current Part No.	wv	Сар	Case size	Impedance (Ω max./100kHz)		Rated ripple current	Part No.	
			20°C	-10℃	(mArms/ 105℃, 100kHz)	Fait NO.	(Vdc)	(μF)	φD×L(mm)	20°C	-10℃	(mArms/ 105°C, 100kHz)	T ut two.
	82	5×11.5	0.75	1.5	163	ELXY100E 820MEB5D		27	5×11.5	0.75	1.5	163	ELXY350E 270MEB5D
	180	6.3×11.5	0.35	0.70	273		35	56	6.3×11.5	0.35	0.70	273	
	220 330	6.3×15 8×12	0.25	0.50 0.34	390 445	ELXY100E 221MF15D ELXY100E 331MH12D		82 120	6.3×15 8×12	0.25	0.50	390 445	ELXY350E 820MF15D ELXY350E 121MH12D
	390	10×12.5	0.17	0.34	625	ELXY100E 391MJC5S		120	10×12.5	0.17	0.34	625	ELXY350E
	470	8×15	0.12	0.26	555	ELXY100E 471MH15D		180	8×15	0.12	0.26	555	ELXY350E 181MH15D
	680	8×20	0.095	0.19	740	ELXY100E 681MH20D		220	8×20	0.095	0.19	740	ELXY350E 221MH20D
10	680	10×16	0.084	0.17	825	ELXY100E G81MJ16S		220	10×16	0.084	0.17	825	ELXY350E 221MJ16S
	1,000	10×20	0.062	0.13	1,040	ELXY100E 102MJ20S		330	10×20	0.062	0.13	1,040	ELXY350E 331MJ20S
	1,200	10×25	0.052	0.11	1,260	ELXY100E		390	10×25	0.052	0.11	1,260	ELXY350E 391MJ25S
	1,500	10×30	0.044	0.088	1,440	ELXY100E		560	10×30	0.044	0.088	1,440	
	1,800 2,200	12.5×20 12.5×25	0.046	0.092	1,340 1,690	ELXY100E 182MK20S ELXY100E 222MK25S		560 680	12.5×20 12.5×25	0.046	0.092	1,340 1,690	ELXY350E 561MK20S ELXY350E 681MK25S
	2,200	12.5×25	0.034	0.000	1,950	ELXY100E 272MK30S		1,000	12.5×25	0.034	0.000	1,950	ELXY350E 102MK30S
	3,300	12.5×35	0.024	0.048	2,220	ELXY100E 332MK35S		1,000	16×20	0.038	0.076	1,630	ELXY350E 102ML20S
	3,300	16×20	0.038	0.076	1,630	ELXY100E 332ML20S		1,200	12.5×35	0.024	0.048	2,220	ELXY350E 122MK35S
	3,900	12.5×40	0.022	0.044	2,390	ELXY100E 392MK40S		1,200	16×25	0.028	0.056	2,070	ELXY350E 122ML25S
	3,900	16×25	0.028	0.056	2,070	ELXY100E 392ML25S		1,500	12.5×40	0.022	0.044	2,390	ELXY350E 152MK40S
	5,600	16×30	0.025	0.050	2,350	ELXY100E 562ML30S		1,800	16×30	0.025	0.050	2,350	ELXY350E 182ML30S
	6,800	16×35	0.022	0.044	2,550	ELXY100E		2,200	16×35	0.022	0.044	2,550	ELXY350E
	8,200 56	16×40 5×11.5	0.018	0.036	2,900 163	ELXY100E 822ML40S ELXY160E 560MEB5D	$\vdash$	2,700 18	16×40 5×11.5	0.018	0.036	2,900 129	ELXY350E 272ML40S
	120	6.3×11.5	0.75	0.70	273	ELXY160E		39	6.3×11.5	0.54	1.1	219	ELXY500E
	120	6.3×11.5	0.25	0.50	390	ELXY160E		56	6.3×15	0.34	0.68	310	ELXY500E
	270	8×12	0.17	0.34	445	ELXY160E 271MH12D		68	8×12	0.30	0.60	340	ELXY500E 680MH12D
	270	10×12.5	0.12	0.24	625	ELXY160E 271MJC5S		82	8×15	0.20	0.40	470	ELXY500E 820MH15D
	330	8×15	0.13	0.26	555	ELXY160E 331MH15D	50	82	10×12.5	0.20	0.40	480	ELXY500E 820MJC5S
	470	8×20	0.095	0.19	740	ELXY160E 471MH20D		120	8×20	0.14	0.28	610	ELXY500E 121MH20D
	470	10×16	0.084	0.17	825	ELXY160E 471MJ16S		120	10×16	0.13	0.26	755	ELXY500E
	680	10×20	0.062	0.13	1,040			180	10×20	0.088	0.18	945	ELXY500E 181MJ20S ELXY500E 221MJ25S
16	820 1,200	10×25 10×30	0.052	0.11 0.088	1,260 1,440	ELXY160E 821MJ25S ELXY160E 122MJ30S		220 330	10×25 10×30	0.073	0.15	1,150 1,260	ELXY500E 331MJ30S
10	1,200	12.5×20	0.044	0.000	1,340	ELXY160E		330	12.5×20	0.059	0.12	1,190	ELXY500E 331MK20S
	1,500	12.5×25	0.034	0.068	1,690	ELXY160E		470	12.5×25	0.044	0.088	1,490	ELXY500E
	2,200	12.5×30	0.030	0.060	1,950	ELXY160E 222MK30S		560	12.5×30	0.039	0.078	1,720	ELXY500E 561MK30S
	2,200	16×20	0.038	0.076	1,630	ELXY160E 222ML20S		680	12.5×35	0.033	0.066	1,890	ELXY500E 681MK35S
	2,700	12.5×35	0.024	0.048	2,220	ELXY160E 272MK35S		680	16×20	0.050	0.10	1,420	ELXY500E G81ML20S
	2,700	16×25	0.028	0.056	2,070	ELXY160E		820	12.5×40	0.029	0.058	2,030	ELXY500E
	3,300 3,900	12.5×40 16×30	0.022	0.044	2,390 2,350	ELXY160E 332MK40S ELXY160E 392ML30S		820	16×25 16×30	0.034	0.068	1,880 2,150	ELXY500E 821ML25S ELXY500E 102ML30S
	4,700	16×35	0.025	0.030	2,550	ELX1160E		1,200	16×30	0.030	0.060	2,150	ELXY500E
	5,600	16×40	0.022	0.036	2,900	ELXY160E		1,500	16×40	0.027	0.034	2,520	ELXY500E
	39	5×11.5	0.75	1.5	163	ELXY250E 390MEB5D		10	5×11.5		4.8	103	ELXY630E 100MEB5D
	82	6.3×11.5		0.70	273	ELXY250E 820MFB5D		18	6.3×11.5	1.0	2.5	161	ELXY630E 180MFB5D
	120	6.3×15	0.25	0.50	390	ELXY250E 121MF15D		33	6.3×15	0.61	1.6	233	ELXY630E 330MF15D
	150	8×12	0.17	0.34	445	ELXY250E		47	8×12	0.47	1.2	274	ELXY630E 470MH12D
	180	10×12.5	0.12	0.24	625			56	10×12.5	0.27	0.68	418	
	220 330	8×15 8×20	0.13 0.095	0.26	555 740	ELXY250E 221MH15D ELXY250E 331MH20D	63	68 68	8×15 10×16	0.34 0.21	0.85 0.53	360 525	ELXY630E 680MH15D ELXY630E 680MJ16S
	330	10×16	0.095		825	ELXY250E 331MJ16S		82	8×20	0.21	0.53	525	ELXY630E 820MH20D
	470	10×20	0.062		1,040	ELXY250E 471MJ20S		120	10×20	0.16	0.40	650	ELXY630E
	560	10×25	0.052		1,260	ELXY250E 561MJ25S		150	10×25	0.13	0.33	783	ELXY630E 151MJ25S
25	820	10×30	0.044		1,440	ELXY250E B21MJ30S		180	10×30	0.10	0.25	960	ELXY630E 181MJ30S
	820	12.5×20	0.046		1,340	ELXY250E B21MK20S		220		0.11	0.28	870	ELXY630E 221MK20S
	1,000	12.5×25	0.034		1,690	ELXY250E 102MK25S		270		0.074	0.19	1,150	ELXY630E
	1,500	12.5×30	0.030		1,950	ELXY250E		330	16×20	0.085	0.22	1,100	ELXY630E 331ML20S
	1,500	16×20	0.038		1,630			390		0.068	0.17	1,280	
	1,800 1,800	12.5×35 16×25	0.024		2,220 2,070	ELXY250E 182MK35S ELXY250E 182ML25S		470 470	12.5×35 16×25	0.063	0.16 0.14	1,390 1,480	ELXY630E 471MK35S ELXY630E 471ML25S
	2,200	12.5×40	0.020		2,390	ELXY250E 222MK40S		560	12.5×40	0.051	0.14	1,530	ELXY630E
	2,700	16×30	0.025		2,350	ELXY250E 272ML30S		680	16×30	0.046	0.12	1,720	ELXY630E
	3,300	16×35	0.022		2,550	ELXY250E 332ML35S		820	16×35	0.040	0.10	1,910	ELXY630E 821ML35S
	3,900	16×40	0.018	0.036	2,900	ELXY250E 392ML40S		1,000	16×40	0.036	0.090	2,070	ELXY630E 102ML40S

 $\Box$   $\Box$  : Enter the appropriate lead forming or taping code.

Production of the products shown in \_\_\_\_\_\_ is scheduled to be discontinued.

## CHEMI-CON ALUMINUM ELECTROLYTIC CAPACITORS

- 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.
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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