



- Adoption of innovative electrolyte and new technologies
- $\ensuremath{\raisebox{.16ex}{$\scriptstyle \bullet$}}$ Endurance with ripple current : 2,000 to 8,000 hours at 105 $\ensuremath{^{\circ}}$
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

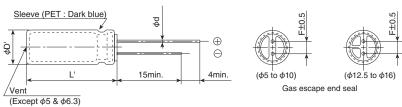


◆SPECIFICATIONS

Items			Charact	eristics					
Category Temperature Range	-55 to +105℃								
Rated Voltage Range	10 to 63V _{dc}								
Capacitance Tolerance	±20% (M)				(at 20°C, 120Hz)				
Leakage Current	I=0.01CV or 3μA, whiche Where, I: Max. leakage	ver is greater. current (µA), C : Nominal cap	pacitance (μF), V : Rated voltage (V)	(at 20°C after 2 minutes)				
Dissipation Factor	Rated voltage (Vdc)	10V 16V 25V 35V	50V 63V						
(tan δ)	tan δ (Max.)	0.19 0.16 0.14 0.12	0.10 0.10						
	When nominal capacitan	ce exceeds 1,000µF, add 0.0	2 to the valu	e above for each 1,000μF increase.	(at 20°C, 120Hz)				
Low Temperature	Z(-55°C)/Z(+20°C)	10 to 50V _{dc} : 3max.							
Characteristics (Max. Impedance Ratio)	2(-33 0)/2(+20 0)	63V _{dc} : 6max.							
(wax. impedance hallo)					(at 120Hz)				
Endurance	Idurance The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC v ripple current is applied (the peak voltage shall not exceed the rated voltage) for the specified period of time at 1								
	Time	φ5 & 6.3 : 2,000hours φ8	3 : 3,000hours	φ 10: 5,000hours φ 12.5: 7,000hours φ	16 & 18 : 8,000hours				
	Capacitance change ≤±20% of the initial value								
	D.F. $(\tan \delta)$ $\leq 200\%$ of the initial specified value								
	Leakage current	≦The initial specified valu	е						
Shelf Life	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 ±20% of the initial value	е						
	D.F. (tan δ)	≦200% of the initial specif	fied value						
	Leakage current	≦The initial specified valu	е						

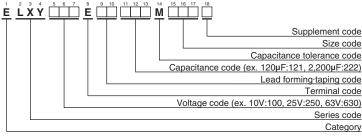
◆DIMENSIONS [mm]

■Terminal Code : E



φD	5	6.3	8	10	12.5	16			
φd	0.5	0.5	0.6	0.6	0.6	8.0			
F	2.0	2.5	3.5	5.0	5.0	7.5			
φD'	φD+0.5max.								
L'	L+1.5max.								

◆PART NUMBERING SYSTEM



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

TABLE 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.

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	Сар	Case size	Impedance (Ω max./100kHz)		Rated ripple current Part	Part No.	wv	Сар	Case size	Impedance (Ω max./100kHz)		Rated ripple current	Part No.
(V _{dc})	(μF)	φD×L(mm)	20℃	-10℃	(mArms/ 105℃, 100kHz)	r dit ito:	(V _{dc})	, , ,	φD×L(mm)	20℃	-10℃	(mArms/ 105℃, 100kHz)	
	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	ELXY100E 181MFB5D		56	6.3×11.5	0.35	0.70	273	ELXY350E 560MFB5D
	220	6.3×15	0.25	0.50	390	ELXY100E 221MF15D		82	6.3×15	0.25	0.50	390	ELXY350E B20MF15D
	330 390	8×12 10×12.5	0.17	0.34	445 625	ELXY100E 331MH12D		120 120	8×12 10×12.5	0.17	0.34	445 625	ELXY350E 121MH12D ELXY350E 121MJC5S
	470	8×15	0.12	0.24	555	ELXY100E 391MJC5S ELXY100E 471MH15D		180	8×15	0.12	0.24	555	ELXY350E 121MJC55
	680	8×20	0.095	0.19	740	ELXY100E 681MH20D		220	8×20	0.095	0.19	740	ELXY350E 221MH20D
	680	10×16	0.084	0.17	825	ELXY100E 681MJ16S		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□□122MJ25S	35	390	10×25	0.052	0.11	1,260	ELXY350E□□391MJ25S
10	1,500	10×30	0.044	0.088	1,440	ELXY100E□□152MJ30S		560	10×30	0.044	0.088	1,440	ELXY350E□□561MJ30S
	1,800	12.5×20	0.046	0.092	1,340	ELXY100E 182MK20S		560	12.5×20	0.046	0.092	1,340	ELXY350E 561MK20S
	2,200	12.5×25	0.034	0.068	1,690	ELXY100E 222MK25S		680	12.5×25	0.034	0.068	1,690	ELXY350E 681MK25S
	2,700 3,300	12.5×30 12.5×35	0.030	0.060	1,950 2,220	ELXY100E□□272MK30S ELXY100E□□332MK35S		1,000	12.5×30 16×20	0.030	0.060	1,950 1,630	ELXY350E□□102MK30S ELXY350E□□102ML20S
	3,300	16×20	0.024	0.046	1,630	ELXY100E 332ML20S		1,200	12.5×35	0.030	0.078	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 G82ML35S		2,200	16×35	0.022	0.044	2,550	ELXY350E 222ML35S
	8,200	16×40	0.018	0.036	2,900	ELXY100E B22ML40S		2,700	16×40	0.018	0.036	2,900	ELXY350E 272ML40S
	56 120	5×11.5 6.3×11.5	0.75	1.5 0.70	163 273	ELXY160E 560MEB5D ELXY160E 121MFB5D		18 39	5×11.5 6.3×11.5	1.2 0.54	2.4 1.1	129 219	ELXY500E \Bigci 180MEB5D ELXY500E \Bigci 390MFB5D
	180	6.3×11.5	0.35	0.70	390	ELXY160E 121MFB5D		56	6.3×11.5	0.34	0.68	310	ELXY500E 560MF15D
	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 B20MH15D
	330	8×15	0.13	0.26	555	ELXY160E□□331MH15D		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 121MJ16S
	680 820	10×20	0.062	0.13	1,040	ELXY160E 681MJ20S		180	10×20	0.088	0.18	945	ELXY500E 181MJ20S
16	1,200	10×25 10×30	0.052	0.11	1,260 1,440	ELXY160E□□821MJ25S ELXY160E□□122MJ30S	50	220 330	10×25 10×30	0.073	0.15 0.11	1,150 1,260	ELXY500E□□221MJ25S ELXY500E□□331MJ30S
'0	1,200	12.5×20	0.044	0.000	1,340	ELXY160E 122MK20S		330	12.5×20	0.059	0.12	1,190	ELXY500E 331MK20S
	1,500	12.5×25	0.034	0.068	1,690	ELXY160E 152MK25S		470	12.5×25	0.044	0.088	1,490	ELXY500E 471MK25S
	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 681ML20S
	2,700	16×25	0.028	0.056	2,070	ELXY160E 272ML25S		820	12.5×40	0.029	0.058	2,030	ELXY500E B21MK40S
	3,300	12.5×40 16×30	0.022	0.044	2,390 2,350	ELXY160E□□332MK40S ELXY160E□□392ML30S		1,000	16×25 16×30	0.034	0.068	1,880 2,150	ELXY500E B21ML25S ELXY500E D102ML30S
	4,700	16×35	0.023	0.030	2,550	ELXY160E 472ML35S		1,200	16×35	0.030	0.054	2,320	ELXY500E 122ML35S
	5,600	16×40	0.022	0.036	2,900	ELXY160E 562ML40S		1,500	16×40	0.024	0.034	2,540	ELXY500E 152ML40S
	39	5×11.5	0.75	1.5	163	ELXY250E□□390MEB5D		10	5×11.5	1.9	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 151MH12D		47	8×12	0.47	1.2	274	ELXY630E 470MH12D
	180 220	10×12.5 8×15	0.12	0.24	625 555	ELXY250E□□181MJC5S ELXY250E□□221MH15D	63	56 68	10×12.5 8×15	0.27	0.68	418 360	ELXY630E 560MJC5S ELXY630E 680MH15D
	330	8×20	0.095		740	ELXY250E 331MH20D		68	10×16	0.21	0.53	525	ELXY630E 680MJ16S
	330	10×16	0.084		825	ELXY250E 331MJ16S		82	8×20	0.21	0.53	500	ELXY630E B20MH20D
i i	470	10×20	0.062	0.13	1,040	ELXY250E□□471MJ20S		120	10×20	0.16	0.40	650	ELXY630E□□121MJ20S
	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	12.5×20	0.11	0.28	870	ELXY630E 221MK20S
	1,000 1,500	12.5×25 12.5×30	0.034		1,690 1,950	ELXY250E□□102MK25S ELXY250E□□152MK30S		270 330	12.5×25 16×20	0.074	0.19	1,150 1,100	ELXY630E□□271MK25S ELXY630E□□331ML20S
	1,500	16×20	0.030		1,630	ELXY250E 152MK30S 152MK30S		330	16×20 12.5×30	0.085	0.22	1,100	ELXY630E 331ML20S ELXY630E 391MK30S
	1,800	12.5×35	0.024		2,220	ELXY250E 182MK35S		470	12.5×35	0.063	0.16	1,390	ELXY630E 471MK35S
	1,800	16×25	0.028		2,070	ELXY250E□□182ML25S		470	16×25	0.055	0.14	1,480	ELXY630E□□471ML25S
	2,200	12.5×40	0.022		2,390	ELXY250E□□222MK40S		560	12.5×40	0.051	0.13	1,530	ELXY630E□□561MK40S
	2,700	16×30	0.025		2,350	ELXY250E 272ML30S		680	16×30	0.046	0.12	1,720	ELXY630E G81ML30S
	3,300	16×35	0.022		2,550	ELXY250E 332ML35S		820	16×35	0.040	0.10	1,910	ELXY630E B21ML35S
	3,900	16×40	0.018	0.036	2,900	ELXY250E 392ML40S		1,000	16×40	0.036	0.090	2,070	ELXY630E \Box 102ML40S

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

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



- 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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 - 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

products

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