

CHEMI-CON ALUMINUM ELECTROLYTIC CAPACITORS



- Adoption of innovative electrolyte and new technologies
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- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

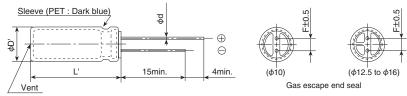


◆SPECIFICATIONS

Items	Characteristics								
Category 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, 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 δ)	tan δ (Max.)	0.19 0.16 0.14 0.12 0.10 0.10							
	When nominal capacitan	ce exceeds 1,000 μ F, add 0.02 to the value above for each 1,000 μ F increase. (at 20 $^{\circ}$ C, 120Hz)							
Low Temperature	Z(-55°C)/Z(+20°C)	10 to 50V₀ : 3max.							
Characteristics (Max. Impedance Ratio)	2(-33 0)/2(+20 0)	63V _∞ : 6max.							
(wax. impedance hallo)		(at 120Hz)							
Endurance	Endurance 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 105°C.								
	Time	φ10: 5,000hours φ12.5: 7,000hours φ16 & 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 value							
Shelf Life	The following opening and chair be equalled when the expension are rectified to 20 C and expension and								
	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							

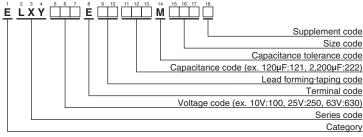
◆DIMENSIONS [mm]

Terminal Code : E



φD	10	12.5	16			
φd	0.6	0.6	0.8			
F	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)"

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

' '	•			
Capacitance(µF) Frequency(Hz)	120	1k	10k	100k
56 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 (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ω max./100kHz		current	Part No.	wv	Сар	Case size	Impedance (Ω max./100kHz)		Rated ripple current	Part No.
			20℃ -10	-10℃	(mArms/ 105°C, 100kHz)	T dit No.	(V _{dc})	(μF)	φD×L(mm)	20℃	-10℃	(mArms/ 105℃, 100kHz)	, untito
	390	10×12.5	0.12	0.24	625	ELXY100E□□391MJC5S		120	10×12.5	0.12	0.24	625	ELXY350E□□121MJC5S
	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		390	10×25	0.052	0.11	1,260	ELXY350E 391MJ25S
	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	35	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
10	2,700	12.5×30	0.030	0.060	1,950	ELXY100E 272MK30S		1,000	12.5×30	0.030	0.060	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 682ML35S		2,200	16×35	0.022	0.044	2,550 2,900	ELXY350E 222ML35S
-	8,200 270	16×40	0.018	0.036	2,900 625	ELXY100E B22ML40S		2,700 82	16×40	0.018	_	480	ELXY350E 272ML40S
	470	10×12.5 10×16	0.12	0.24	825	ELXY160E 271MJC5S		120	10×12.5 10×16	0.20	0.40	755	ELXY500E 820MJC5S
	680	10×16	0.062	0.17	1.040	ELXY160E □ 471MJ16S ELXY160E □ 681MJ20S		180	10×16	0.13	0.26	945	ELXY500E□□121MJ16S ELXY500E□□181MJ20S
	820	10×20	0.062	0.13	1,040	ELXY160E 821MJ25S	50	220	10×20 10×25	0.088	0.15	1,150	ELXY500E 221MJ25S
	1,200	10×23	0.032	0.088	1,440	ELXY160E 122MJ30S		330	10×23	0.073	0.13	1,130	ELXY500E 331MJ30S
	1,200	12.5×20	0.044	0.000	1,340	ELXY160E 122MK20S		330	12.5×20	0.054	0.11	1,190	ELXY500E 331MK20S
	1,500	12.5×25	0.040	0.092	1,690	ELXY160E 152MK25S		470	12.5×25	0.039	0.12	1,490	ELXY500E 471MK25S
16	2,200	12.5×20	0.034	0.060	1.950	ELXY160E T222MK30S		560	12.5×20	0.039	0.000	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	0.024	0.056	2,070	ELXY160E 272ML25S		820	12.5×40	0.029	0.058	2,030	ELXY500E B21MK40S
	3,300	12.5×40	0.022	0.044	2,390	ELXY160E 332MK40S		820	16×25	0.034	0.068	1,880	ELXY500E B21ML25S
	3,900	16×30	0.025	0.050	2,350	ELXY160E 392ML30S		1,000	16×30	0.030	0.060	2,150	ELXY500E 102ML30S
	4,700	16×35	0.022	0.044	2,550	ELXY160E 472ML35S		1,200	16×35	0.027	0.054	2.320	ELXY500E 122ML35S
	5,600	16×40	0.018	0.036	2,900	ELXY160E 562ML40S		1,500	16×40	0.024	0.048	2,540	ELXY500E 152ML40S
	180	10×12.5	0.12	0.24	625	ELXY250E□□181MJC5S		56	10×12.5	0.27	0.68	418	ELXY630E□□560MJC5S
	330	10×16	0.084	0.17	825	ELXY250E□□331MJ16S	63	68	10×16	0.21	0.53	525	ELXY630E□□680MJ16S
	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	0.11	1,260	ELXY250E□□561MJ25S		150	10×25	0.13	0.33	783	ELXY630E□□151MJ25S
	820	10×30	0.044	0.088	1,440	ELXY250E□□821MJ30S		180	10×30	0.10	0.25	960	ELXY630E□□181MJ30S
	820	12.5×20	0.046	0.092	1,340	ELXY250E□□821MK20S		220	12.5×20	0.11	0.28	870	ELXY630E□□221MK20S
	1,000	12.5×25	0.034	0.068	1,690	ELXY250E□□102MK25S		270	12.5×25	0.074	0.19	1,150	ELXY630E□□271MK25S
25	1,500	12.5×30	0.030	0.060	1,950	ELXY250E□□152MK30S		330	16×20	0.085	0.22	1,100	ELXY630E□□331ML20S
	1,500	16×20	0.038	0.076	1,630	ELXY250E□□152ML20S		390	12.5×30	0.068	0.17	1,280	ELXY630E□□391MK30S
	1,800	12.5×35	0.024	0.048	2,220	ELXY250E□□182MK35S		470	12.5×35	0.063	0.16	1,390	ELXY630E□□471MK35S
	1,800	16×25	0.028	0.056	2,070	ELXY250E□□182ML25S		470	16×25	0.055	0.14	1,480	ELXY630E□□471ML25S
	2,200	12.5×40	0.022	0.044	2,390	ELXY250E□□222MK40S		560	12.5×40	0.051	0.13	1,530	ELXY630E□□561MK40S
	2,700	16×30	0.025	0.050	2,350	ELXY250E□□272ML30S		680	16×30	0.046	0.12	1,720	ELXY630E□□681ML30S
	3,300	16×35	0.022	0.044	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

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



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 - 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

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.