



- ODoesn't spark with DC over voltage
- Endurance with ripple current : 2,000 hours at 105°C
- Non solvent resistant type
- ESR value prescribed
- RoHS2 Compliant





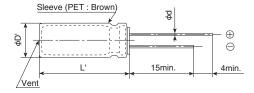


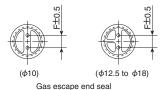
SPECIFICATIONS

Items	Characteristics					
Category Temperature Range	-25 to +105℃					
Rated Voltage Range	200 to 450V _{dc}					
Capacitance Tolerance	±20% (M)					(at 20℃, 120Hz)
Leakage Current	I=0.04CV+100					
	Where, I: Max. leakage	current (μA), (C : Non	ninal capacitance (μF), V : Rated voltage (V)	(at 20°C after 1 minute)
Dissipation Factor	Rated voltage (Vdc)	200V 400V	450V			
(tan δ)	$tan \delta$ (Max.)	0.20 0.24	0.24			(at 20℃, 120Hz)
Low Temperature	Rated voltage (Vdc)	200V 400V	450V			
Characteristics	Z(-25°C)/Z(+20°C)	4 6	6			
(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 2,000 hours at 105℃.					
	Capacitance change	≦±20% of	the ini	tial value		
	D.F. (tan δ)	≦200% of	the initi	al specified value		
	Leakage current	≦The initia	l specif	ied 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	f the ini	tial value		
	D.F. (tan δ)	≦200% of	the initi	al specified value		
	Leakage current	≦500% of	the initi	al specified value		

◆DIMENSIONS [mm]

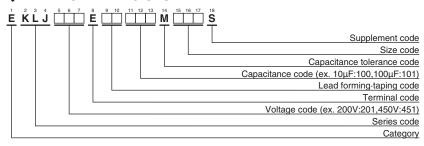
●Terminal Code : E





φD	10	12.5	16	18	
φd	0.6	0.6	0.8	0.8	
F	5.0	5.0	7.5	7.5	
φ D '	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	300	1k	10k	50k	100k
10µF	1.00	1.35	1.75	2.30	2.50	2.70
15 to 47µF	1.00	1.25	1.50	1.75	1.80	1.85
56 to 330µF	1.00	1.15	1.30	1.40	1.50	1.60

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.





STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φ D×L(mm)	tan δ	ESR (Ωmax/20℃, 100kHz)	Rated ripple current (mArms/105℃, 120Hz)	Part No.
ĺ	33	10×20	0.20	1.8	165	EKLJ201E□□330MJ20S
	39	10 × 25	0.20	1.4	200	EKLJ201E□□390MJ25S
	56	12.5 × 20	0.20	1.0	265	EKLJ201E□□560MK20S
	82	12.5 × 25	0.20	0.72	350	EKLJ201E□□820MK25S
	100	16×20	0.20	0.63	390	EKLJ201E□□101ML20S
ĺ	120	16 × 25	0.20	0.44	465	EKLJ201E□□121ML25S
200	150	18 × 20	0.20	0.31	505	EKLJ201E□□151MM20S
ĺ	180	16 × 31.5	0.20	0.36	615	EKLJ201E□□181MLN3S
Ì	180	18 × 25	0.20	0.30	585	EKLJ201E□□181MM25S
ĺ	220	16 × 35.5	0.20	0.30	695	EKLJ201E□□221MLP1S
	220	18 × 31.5	0.20	0.28	700	EKLJ201E□□221MMN3S
ĺ	270	18 × 35.5	0.20	0.24	805	EKLJ201E□□271MMP1S
	330	18 × 40	0.20	0.21	900	EKLJ201E□□331MM40S
	10	10×16	0.24	5.7	64	EKLJ401E□□100MJ16S
	15	10 × 20	0.24	4.0	105	EKLJ401E□□150MJ20S
Ì	18	10 × 25	0.24	3.2	110	EKLJ401E□□180MJ25S
	22	12.5 × 20	0.24	2.7	165	EKLJ401E□□220MK20S
F	27	12.5 × 25	0.24	1.9	200	EKLJ401E□□270MK25S
	33	16 × 20	0.24	1.5	225	EKLJ401E□□330ML20S
Ì	39	18 × 20	0.24	1.2	255	EKLJ401E□□390MM20S
400	47	16 × 25	0.24	1.1	290	EKLJ401E□□470ML25S
400	47	18 × 20	0.24	1.2	280	EKLJ401E□□470MM20S
Ì	56	16 × 31.5	0.24	0.84	340	EKLJ401E□□560MLN3S
Ì	68	16 × 35.5	0.24	0.72	385	EKLJ401E□□680MLP1S
Ì	68	18 × 25	0.24	0.88	360	EKLJ401E□□680MM25S
Ì	82	16×40	0.24	0.65	435	EKLJ401E□□820ML40S
	82	18 × 31.5	0.24	0.64	425	EKLJ401E□□820MMN3S
	100	18 × 35.5	0.24	0.54	490	EKLJ401E□□101MMP1S
	120	18 × 40	0.24	0.49	540	EKLJ401E□□121MM40S
	39	16 × 25	0.24	1.4	265	EKLJ451E□□390ML25S
450	39	18 × 20	0.24	1.4	255	EKLJ451E□□390MM20S
	47	16 × 25	0.24	1.3	290	EKLJ451E□□470ML25S
	47	18 × 25	0.24	1.2	320	EKLJ451E□□470MM25S
	56	16 × 31.5	0.24	1.1	340	EKLJ451E□□560MLN3S
	68	16 × 35.5	0.24	0.86	420	EKLJ451E□□680MLP1S
	68	18 × 31.5	0.24	0.91	390	EKLJ451E□□680MMN3S
	82	16 × 40	0.24	0.79	435	EKLJ451E□□820ML40S
	82	18 × 31.5	0.24	0.78	425	EKLJ451E□□820MMN3S
	100	18 × 40	0.24	0.67	490	EKLJ451E□□101MM40S
	110	18 × 40	0.24	0.59	540	EKLJ451E□□111MM40S
	120	18 × 45	0.24	0.58	570	EKLJ451E□□121MM45S

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

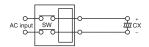
♦DC OVERVOLTAGE TEST CONDITIONS

The vent will operate and the capacitor shall become an open circuit without burning materials when the following excess DC voltage is applied.

●Test DC voltage

Rated voltage	Nominal capacitance	Current limit	Test DC voltage	
200Vdc	<330μF	4A	300/375Vdc	
200 vac	330μF	5A 500/378		
400Vdc	<100μF	2A	500/600V _{dc}	
400 Vac	100μF≦C≦120μF	4A		
450Vdc	<100μF	2A	550/675Vdc	
450 Vac	100μF≦C≦120μF	4A	550/675Vdc	

Test circuit



Constant DC voltage/current power supply



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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 - products
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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