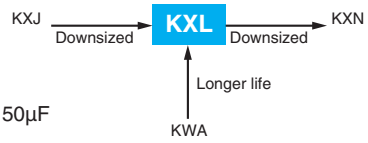
KXL Series





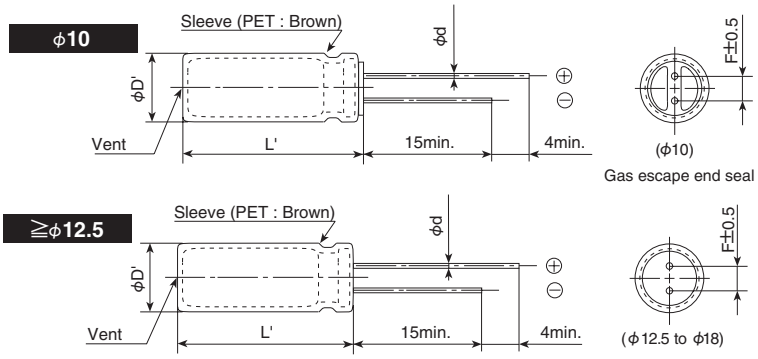
- Ideal for low profile power supply applications
- Downsized from KXJ series
- Rated voltage range : 400 to 450Vdc, Capacitance range : 15 to 150μF
- Endurance with ripple current : 10,000 to 12,000 hours at 105℃
- Non solvent resistant type
- RoHS2 Compliant

◆SPECIFICATIONS

Items	Characteristics		
Category Temperature Range	-40 to +105℃		
Rated Voltage Range	400 to 450Vdc		
Capacitance Tolerance	±20% (M)		(at 20℃, 120Hz)
Leakage Current	I=0.04CV+100 (after 1 minute) I=0.02CV+25 (after 5 minutes) Where, I : Max. leakage current(μA), C : Nominal capacitance (μF), V : Rated voltage (V)		(at 20℃)
Dissipation Factor (tan δ)	Rated voltage (Vdc)	400 to 450V	
	tan δ (Max.)	0.24	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	400 to 450V	
	Z(-25℃)/Z(+20℃)	6	
	Z(-40℃)/Z(+20℃)	10	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 12,000 hours (10,000 hours for 20L) at 105℃.		
	Capacitance change	≦±20% of the initial value	
	D.F. (tan δ)	≦200% of the initial specified value	
	Leakage current	≦The initial specified value	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ 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 the initial value	
	D.F. (tan δ)	≦200% of the initial specified value	
	Leakage current	≦500% of the initial specified value	

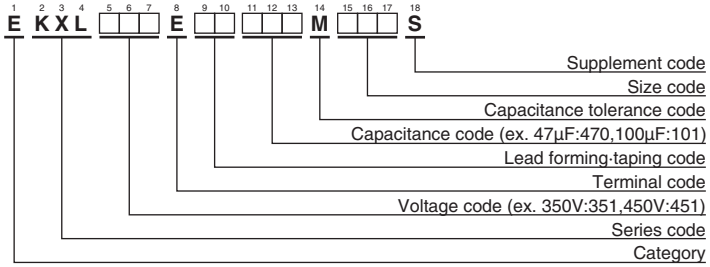
◆DIMENSIONS [mm]

●Terminal Code : E



φD	10	12.5	14.5	16	18
φd	0.6	0.6	0.8	0.8	0.8
F	5.0	5.0	7.5	7.5	7.5
φD'	φD+0.5 max.				
L'	L+2.0 max.				

◆PART NUMBERING SYSTEM



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

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KXL Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (mArms/ 105℃, 120Hz)	Part No.
400	18	10×20	0.24	220	EKXL401E□□180MJ20S
	22	10×25	0.24	250	EKXL401E□□220MJ25S
	27	12.5×20	0.24	300	EKXL401E□□270MK20S
	33	10×30	0.24	340	EKXL401E□□330MJ30S
	39	10×35	0.24	390	EKXL401E□□390MJ35S
	39	12.5×25	0.24	390	EKXL401E□□390MK25S
	39	14.5×20	0.24	370	EKXL401E□□390MU20S
	47	10×40	0.24	440	EKXL401E□□470MJ40S
	56	10×45	0.24	500	EKXL401E□□560MJ45S
	56	12.5×30	0.24	495	EKXL401E□□560MK30S
	56	14.5×25	0.24	495	EKXL401E□□560MU25S
	56	16×20	0.24	480	EKXL401E□□560ML20S
	68	12.5×35	0.24	570	EKXL401E□□680MK35S
	68	14.5×30	0.24	585	EKXL401E□□680MU30S
	68	16×25	0.24	570	EKXL401E□□680ML25S
	68	18×20	0.24	530	EKXL401E□□680MM20S
	82	12.5×40	0.24	650	EKXL401E□□820MK40S
	82	14.5×35	0.24	670	EKXL401E□□820MU35S
	100	12.5×50	0.24	760	EKXL401E□□101MK50S
	100	14.5×40	0.24	760	EKXL401E□□101MU40S
	100	16×30	0.24	720	EKXL401E□□101ML30S
	100	18×25	0.24	710	EKXL401E□□101MM25S
	120	14.5×45	0.24	840	EKXL401E□□121MU45S
	120	16×35	0.24	810	EKXL401E□□121ML35S
	120	18×30	0.24	840	EKXL401E□□121MM30S
	150	18×35	0.24	930	EKXL401E□□151MM35S
420	15	10×20	0.24	195	EKXL421E□□150MJ20S
	22	10×25	0.24	250	EKXL421E□□220MJ25S
	27	10×30	0.24	300	EKXL421E□□270MJ30S
	27	12.5×20	0.24	300	EKXL421E□□270MK20S
	33	10×35	0.24	350	EKXL421E□□330MJ35S
	33	12.5×25	0.24	350	EKXL421E□□330MK25S
	33	14.5×20	0.24	350	EKXL421E□□330MU20S
	39	10×40	0.24	400	EKXL421E□□390MJ40S
	47	10×45	0.24	460	EKXL421E□□470MJ45S
	47	12.5×30	0.24	440	EKXL421E□□470MK30S
	47	16×20	0.24	430	EKXL421E□□470ML20S
	56	10×50	0.24	520	EKXL421E□□560MJ50S
	56	12.5×35	0.24	510	EKXL421E□□560MK35S
	56	14.5×25	0.24	490	EKXL421E□□560MU25S
	68	12.5×40	0.24	580	EKXL421E□□680MK40S
	68	14.5×30	0.24	560	EKXL421E□□680MU30S
	68	16×25	0.24	560	EKXL421E□□680ML25S
	68	18×20	0.24	540	EKXL421E□□680MM20S
	82	12.5×45	0.24	660	EKXL421E□□820MK45S
	82	14.5×35	0.24	660	EKXL421E□□820MU35S
	82	16×30	0.24	650	EKXL421E□□820ML30S
	82	18×25	0.24	640	EKXL421E□□820MM25S
	100	12.5×50	0.24	750	EKXL421E□□101MK50S
	100	14.5×40	0.24	720	EKXL421E□□101MU40S
	100	16×35	0.24	730	EKXL421E□□101ML35S
	120	16×40	0.24	840	EKXL421E□□121ML40S
	120	18×30	0.24	800	EKXL421E□□121MM30S

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (mArms/ 105℃, 120Hz)	Part No.
450	15	10×20	0.24	190	EKXL451E□□150MJ20S
	18	10×25	0.24	230	EKXL451E□□180MJ25S
	27	10×30	0.24	300	EKXL451E□□270MJ30S
	27	12.5×20	0.24	290	EKXL451E□□270MK20S
	33	10×35	0.24	350	EKXL451E□□330MJ35S
	33	12.5×25	0.24	360	EKXL451E□□330MK25S
	33	14.5×20	0.24	335	EKXL451E□□330MU20S
	39	10×40	0.24	400	EKXL451E□□390MJ40S
	39	16×20	0.24	400	EKXL451E□□390ML20S
	47	10×50	0.24	480	EKXL451E□□470MJ50S
	47	12.5×30	0.24	440	EKXL451E□□470MK30S
	47	14.5×25	0.24	450	EKXL451E□□470MU25S
	56	12.5×35	0.24	500	EKXL451E□□560MK35S
	56	14.5×30	0.24	540	EKXL451E□□560MU30S
	56	16×25	0.24	500	EKXL451E□□560ML25S
	56	18×20	0.24	500	EKXL451E□□560MM20S
	68	12.5×40	0.24	580	EKXL451E□□680MK40S
	68	14.5×35	0.24	620	EKXL451E□□680MU35S
	82	12.5×50	0.24	680	EKXL451E□□820MK50S
	82	14.5×40	0.24	670	EKXL451E□□820MU40S
	82	16×30	0.24	650	EKXL451E□□820ML30S
	82	18×25	0.24	650	EKXL451E□□820MM25S
	100	14.5×45	0.24	760	EKXL451E□□101MU45S
	100	16×35	0.24	730	EKXL451E□□101ML35S
	100	18×30	0.24	750	EKXL451E□□101MM30S
	120	18×35	0.24	860	EKXL451E□□121MM35S

□□ : Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance(μF) \ Frequency(Hz)	120	1k	10k	100k
15 to 82	1.00	1.75	2.25	2.50
100 to 150	1.00	1.67	2.05	2.25

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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■ 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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The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products

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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

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