Downsized KXN

KXL

кŴА

Longer life



Oldeal 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°C

Non solvent resistant type

RoHS2 Compliant

\$SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-40 to +105℃							
Rated Voltage Range	400 to 450V _{dc}							
Capacitance Tolerance	±20% (M) (at 20°C, 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°C)							
Dissipation Factor	Rated voltage (V _{dc})	400 to 450V						
(tan δ)	tanδ (Max.)	0.24						
Low Temperature	Rated voltage (V _{dc})	400 to 450V						
Characteristics	Z(-25°C)/Z(+20°C)	6						
(Max. Impedance Ratio)	Z(-40°C)/Z(+20°C)	10		(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 12,000 hours (10,000 hours for 20L) at 105°C.							
	Capacitance change	$\leq \pm 20\%$ of the init	tial value					
	D.F. (tan δ)	≦200% of the initi	al specified value					
	Leakage current	≦The initial 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	$\leq \pm 20\%$ of the init	tial value					
	D.F. (tan δ)	≦200% of the initi	al specified value					
	Leakage current	≦500% of the initi	al specified value					

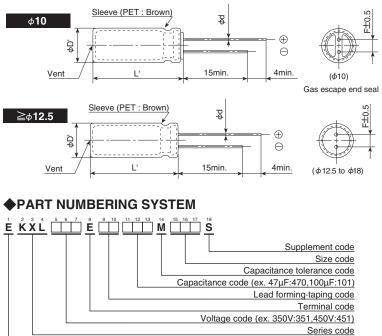
Category

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KXJ _____

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.

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

CAT. No. E1001X 2023



♦STANDARD RATINGS

WV (V _{dc})	Сар (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (mArms/ 105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (mArms/ 105°C, 120Hz)	Part No.
	18	10×20	0.24	220	EKXL401E 180MJ20S		15	10×20	0.24	190	EKXL451E 150MJ20S
	22	10×25	0.24	250	EKXL401E 220MJ25S		18	10×25	0.24	230	EKXL451E 180MJ25S
	27	12.5×20	0.24	300	EKXL401E 270MK20S		27	10×30	0.24	300	EKXL451E 270MJ30S
	33	10×30	0.24	340	EKXL401E 330MJ30S		27	12.5×20	0.24	290	EKXL451E 270MK20S
	39	10×35	0.24	390	EKXL401E 390MJ35S		33	10×35	0.24	350	EKXL451E 330MJ35S
	39	12.5×25	0.24	390	EKXL401E 390MK25S		33	12.5×25	0.24	360	EKXL451E 330MK25S
	39	14.5×20	0.24	370	EKXL401E 390MU20S		33	14.5×20	0.24	335	EKXL451E 330MU20S
	47	10×40	0.24	440	EKXL401E 470MJ40S		39	10×40	0.24	400	EKXL451E 390MJ40S
	56	10×45	0.24	500	EKXL401E		39	16×20	0.24	400	EKXL451E 390ML20S
	56	12.5×30	0.24	495	EKXL401EDD560MK30S		47	10×50	0.24	480	EKXL451E 470MJ50S
	56	14.5×25	0.24	495	EKXL401E 560MU25S		47	12.5×30	0.24	440	EKXL451E 470MK30S
	56	16×20	0.24	480	EKXL401E		47	14.5×25	0.24	450	EKXL451E 470MU25S
	68	12.5×35	0.24	570	EKXL401E		56	12.5×35	0.24	500	EKXL451E
400	68	14.5×30	0.24	585	EKXL401E	450	56	14.5×30	0.24	540	EKXL451E
	68	16×25	0.24	570	EKXL401E 680ML25S		56	16×25	0.24	500	EKXL451E 560ML25S
	68	18×20	0.24	530	EKXL401E 680MM20S		56	18×20	0.24	500	EKXL451E 560MM20S
	82	12.5×40	0.24	650	EKXL401E 820MK40S		68	12.5×40	0.24	580	EKXL451E 680MK40S
	82	14.5×35	0.24	670	EKXL401E 820MU35S		68	14.5×35	0.24	620	EKXL451E 680MU35S
	100	12.5×50	0.24	760	EKXL401E 101MK50S		82	12.5×50	0.24	680	EKXL451E 820MK50S
	100	14.5×40	0.24	760	EKXL401E 101MU40S		82	14.5×40	0.24	670	EKXL451E 820MU40S
	100	16×30	0.24	720	EKXL401E 101ML30S		82	16×30	0.24	650	EKXL451E 820ML30S
	100	18×25	0.24	710	EKXL401E 101MM25S		82	18×25	0.24	650	EKXL451E 820MM25S
	120	14.5×45	0.24	840	EKXL401E		100	14.5×45	0.24	760	EKXL451E 101MU45S
	120	16×35	0.24	810	EKXL401E		100	16×35	0.24	730	EKXL451E 101ML35S
	120	18×30	0.24	840	EKXL401E 121MM30S		100	18×30	0.24	750	EKXL451E 101MM30S
	150	18×35	0.24	930	EKXL401E 151MM35S		120	18×35	0.24	860	EKXL451E 121MM35S
	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						
420	56	14.5×25	0.24	490	EKXL421E						
	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						

 \Box : 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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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.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.

Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.

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- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual 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.

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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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

United Chemi-Con (UCC):

EKXL451ELL470MU25	S EKXL401ELL560ML20	S EKXL451ELL560ML258	S EKXL451ELL820MM25S
EKXL401ELL101ML30S	EKXL401ELL470MJ40S	EKXL401ELL270MK20S	EKXL401ELL180MJ20S
EKXL401ELL820MU35S	EKXL401ELL330MJ30S	EKXL401ELL680MM20S	EKXL451ELL680MK40S
EKXL451ELL470MK30S	EKXL401ELL101MM25S	EKXL401ELL390MK25S	EKXL451ELL180MJ25S
EKXL451ELL121MM35S	EKXL451ELL390MJ40S	EKXL451ELL330MK25S	EKXL451ELL270MK20S
EKXL421ELL121MM30S	EKXL451ELL150MJ20S	EKXL401ELL121MM30S	EKXL421ELL470MK30S
EKXL401ELL560MJ45S	EKXL421ELL680MM20S	EKXL421ELL390MJ40S	EKXL451ELL470MJ50S
EKXL421ELL560MJ50S	EKXL401ELL220MJ25S	EKXL451ELL390ML20S	EKXL451ELL560MM20S
EKXL401ELL680ML25S	EKXL451ELL101MM30S		