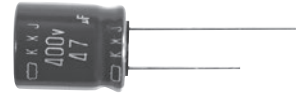
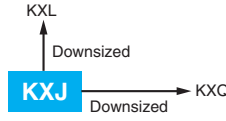


# KXJ Series

- Downsized and Longer life from current KXG series
- Endurance with ripple current : 8,000 to 12,000 hours at 105°C
- Rated voltage range : 160 to 500V, Capacitance range : 6.8 to 680μF
- For electronic ballast circuits and other long life applications
- Non solvent resistant type
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

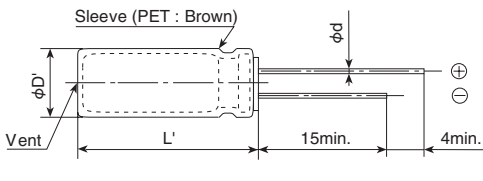


## SPECIFICATIONS

Items	Characteristics			
Category	-40 to +105°C (160 to 450V <sub>dc</sub> )    -25 to +105°C (500V <sub>dc</sub> )			
Temperature Range				
Rated Voltage Range	160 to 500V <sub>dc</sub>			
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)			
Leakage Current		After 1 minute	After 5 minutes	
	CV ≤ 1000	I = 0.1CV + 40	I = 0.03CV + 15	
	CV > 1000	I = 0.04CV + 100	I = 0.02CV + 25	
	Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C)			
Dissipation Factor (tan δ)	Rated voltage (V <sub>dc</sub> )	160 to 250V	350 to 500V	
	tan δ (Max.)	0.20	0.24	(at 20°C, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V <sub>dc</sub> )	160 to 250V	350, 400V	420 to 500V
	Z(-25°C)/Z(+20°C)	3	5	6
	Z(-40°C)/Z(+20°C)	6	6	—
	(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 the specified time at 105°C.			
	Rated voltage (V <sub>dc</sub> )	160 to 450V		500V
	Time	16L to 20L : 10,000hours, 25L to 50L : 12,000hours		φ10 : 8,000hours, φ12.5 to φ18 : 10,000hours
	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°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 the initial value		
	D.F. (tan δ)	≤ 200% of the initial specified value		
	Leakage current	≤ 500% of the initial specified value		

## DIMENSIONS [mm]

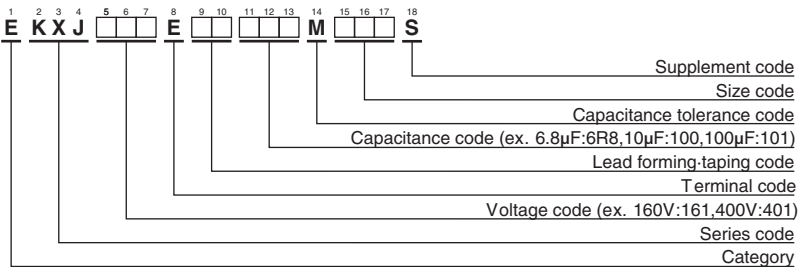
- Terminal Code : E



Gas escaped end seal

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+0.5max.				
L'	L+1.5max.				

## PART NUMBERING SYSTEM



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







## KXJ Series

### ◆STANDARD RATINGS

WV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (mA <sub>rms</sub> /105°C, 120Hz)	Part No.
500	6.8	10 × 20	0.24	90	EKXJ501E□□6R8MJ20S
	8.2	10 × 25	0.24	110	EKXJ501E□□8R2MJ25S
	10	10 × 30	0.24	130	EKXJ501E□□100MJ30S
	12	12.5 × 20	0.24	135	EKXJ501E□□120MK20S
	15	10 × 35	0.24	170	EKXJ501E□□150MJ35S
	15	10 × 40	0.24	175	EKXJ501E□□150MJ40S
	15	12.5 × 25	0.24	165	EKXJ501E□□150MK25S
	18	10 × 45	0.24	190	EKXJ501E□□180MJ45S
	18	12.5 × 30	0.24	190	EKXJ501E□□180MK30S
	22	10 × 50	0.24	230	EKXJ501E□□220MJ50S
	22	12.5 × 35	0.24	220	EKXJ501E□□220MK35S
	27	12.5 × 40	0.24	260	EKXJ501E□□270MK40S
	33	12.5 × 45	0.24	285	EKXJ501E□□330MK45S
39	12.5 × 50	0.24	330	EKXJ501E□□390MK50S	

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

### ◆RATED RIPPLE CURRENT MULTIPLIERS

#### ●Frequency Multipliers

(160 to 450V<sub>dc</sub>)

Capacitance(μF)	Frequency(Hz)	120	1k	10k	100k
6.8 to 82		1.00	1.75	2.25	2.50
100 to 680		1.00	1.67	2.05	2.25

(500V<sub>dc</sub>)

Capacitance(μF)	Frequency(Hz)	120	1k	10k	100k
6.8 to 22		1.00	1.78	2.30	2.59
27 to 39		1.00	1.75	2.25	2.50

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.



- 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 reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future.  
The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
- 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.

[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

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[EKXJ401ELL560MU25S](#) [EKXJ451ELL6R8MJ16S](#) [EKXJ401ELL270MK20S](#) [EKXJ201ELL181MM20S](#)  
[EKXJ221ELL221MK50S](#) [EKXJ451ELL121MM40S](#) [EKXJ251ELL560MK20S](#) [EKXJ251ELL331MM40S](#)  
[EKXJ451ELL330MK30S](#) [EKXJ161ELL101MK20S](#) [EKXJ161ELL820MJ25S](#) [EKXJ201ELL270MJ16S](#)  
[EKXJ221ELL121MK30S](#) [EKXJ221ELL271MMN3S](#) [EKXJ221ELL391MM40S](#) [EKXJ251ELL220MJ16S](#)  
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