



- For LED light circuits and other long life applications
- $\ensuremath{\bullet}$ Rated voltage range : 160 to 450 Vdc , Capacitance range : 5.6 to $68\mu F$
- Endurance with ripple current: 15,000 to 20,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant

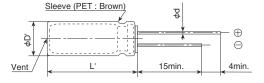


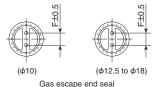
SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-40 to +105℃							
Rated Voltage Range	160 to 450V _{sc}							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current	After 1 minute	After 5 minu	5 minutes					
	I=0.04CV+100	I=0.02CV+2	5					
	Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V) (at 20°C)							
Dissipation Factor	Rated voltage (V _{dc})	160 to 450V						
(tan δ)	tan δ (Max.)	0.24			(at 20℃, 120Hz)			
Low Temperature Characteristics	Rated voltage (V _{dc})	160 to 250V	400, 450V					
	Z(-25°C)/Z(+20°C)	3	6					
(Max. Impedance Ratio)	Z(-40°C)/Z(+20°C)	8	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 20,000 hours (15,000 hours for \$\ph\$10×12.5L) at 105°C.							
	Capacitance change	≦±30% of	the initial valu	ie				
	D.F. (tan δ)	≦300% of t	he initial spec	ified value				
	Leakage current	≦The initial	specified val	ue				
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 voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C							
	Capacitance change	≦±30% of the initial value		ie				
	D.F. (tan δ)	≦300% of t	≦300% of the initial specified value					
	Leakage current	≦500% of t	he initial spec	ified value				

◆DIMENSIONS [mm]

●Terminal Code: E





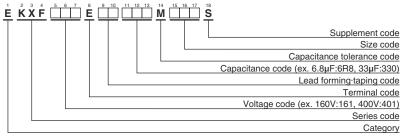
 φD
 10
 12.5
 16
 18

 φd
 0.6
 0.6
 0.8
 0.8

 F
 5.0
 5.0
 7.5
 7.5

 φD'
 φD+0.5max.
 L+1.5max.

◆PART NUMBERING SYSTEM



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

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

- 1 3 1							
Capacitance(μF) Frequency(Hz)	120	1k	10k	100k			
5.6 ~ 68	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.





STANDARD RATINGS

V • • • • • • • • • • • • • • • • • • •	7,112 11,71			T	T
WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (mArms/105℃, 120Hz)	Part No.
160	22	10 × 12.5	0.24	121	EKXF161E□□220MJC5S
	33	10×16	0.24	158	EKXF161E□□330MJ16S
200	18	10 × 12.5	0.24	113	EKXF201E□□180MJC5S
	27	10×16	0.24	149	EKXF201E□□270MJ16S
250	10	10 × 12.5	0.24	90	EKXF251E□□100MJC5S
	12	10 × 12.5	0.24	97	EKXF251E□□120MJC5S
	18	10 × 16	0.24	129	EKXF251E□□180MJ16S
400	5.6	10 × 12.5	0.24	64	EKXF401E□□5R6MJC5S
	8.2	10 × 16	0.24	88	EKXF401E□□8R2MJ16S
450	6.8	10 × 16	0.24	62	EKXF451E□□6R8MJ16S
	8.2	10 × 16	0.24	88	EKXF451E□□8R2MJ16S
	10	10 × 20	0.24	92	EKXF451E□□100MJ20S
	15	12.5 × 20	0.24	140	EKXF451E□□150MK20S
	22	12.5 × 25	0.24	240	EKXF451E□□220MK25S
	27	16 × 20	0.24	305	EKXF451E□□270ML20S
	33	16 × 25	0.24	392	EKXF451E□□330ML25S
	33	18 × 20	0.24	312	EKXF451E□□330MM20S
	47	18 × 25	0.24	480	EKXF451E□□470MM25S
	68	18 × 31.5	0.24	520	EKXF451E□□680MMN3S

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



- 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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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