

• For LED light circuits and other long life applications

- ${\small @}$ 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℃

Non solvent resistant type

RoHS2 Compliant

♦SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-40 to +105℃						
Rated Voltage Range	160 to 450V _{dc}						
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)						
Leakage Current	After 1 minute	After 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						
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	160 to 450V					
	tanδ (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 ϕ 10×12.5L) at 105°C.						
	Capacitance change	$\leq \pm 30\%$ of	the initial valu	ie			
	D.F. (tan δ)	≦300% 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	$\leq \pm 30\%$ of	the initial valu	le			
	D.F. (tan δ)	≦300% of t	he initial spec	ified value			
	Leakage current	≦500% of t	he initial spec	ified value			

DIMENSIONS [mm]



◆PART NUMBERING SYSTEM



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

•RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Capacitance(µF) Frequency(Hz)	120	1k	10k	100k		
$5.6 \sim 68$	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.

KXFSeries

♦STANDARD RATINGS

WV (Vdc)	Cap (µF)	Case size $\phi D \times L(mm)$	tan δ	Rated ripple current (mArms/105°C, 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
	10	10 × 12.5	0.24	90	EKXF251E 100MJC5S
250	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 GR8MJ16S
	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

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

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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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