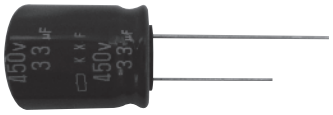
KXF Series

- For LED light circuits and other long life applications
- Rated voltage range : 160 to 450 Vdc , Capacitance range : 5.6 to 68μF
- Endurance with ripple current : 15,000 to 20,000 hours at 105℃
- Non solvent resistant type
- RoHS2 Compliant

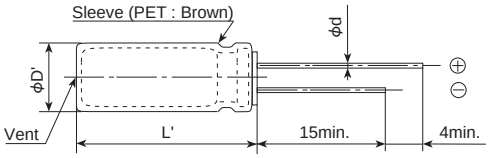


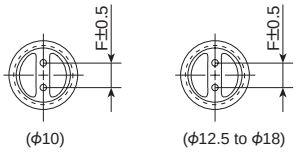
◆SPECIFICATIONS

Items	Characteristics			
Category Temperature Range	-40 to +105℃			
Rated Voltage Range	160 to 450Vdc			
Capacitance Tolerance	±20% (M)			(at 20℃, 120Hz)
Leakage Current	After 1 minute	After 5 minutes		
	I=0.04CV+100	I=0.02CV+25		
	Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)			(at 20℃)
Dissipation Factor (tan δ)	Rated voltage (Vdc)	160 to 450V		
	tan δ (Max.)	0.24		(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	160 to 250V	400, 450V	
	Z(-25℃)/Z(+20℃)	3	6	
	Z(-40℃)/Z(+20℃)	8	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 20,000 hours (15,000 hours for φ10×12.5L) at 105℃.			
	Capacitance change	≦±30% of the initial value		
	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℃ 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	≦±30% of the initial value		
	D.F. (tan δ)	≦300% of the initial specified value		
	Leakage current	≦500% of the initial specified value		

◆DIMENSIONS [mm]

●Terminal Code : E





Gas escape end seal

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'	L+1.5max.			

◆PART NUMBERING SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
E	K	X	F				E						M				S

- Supplement code
- Size code
- Capacitance tolerance code
- Capacitance code (ex. 6.8μF:6R8, 33μF:330)
- Lead forming·taping code
- Terminal code
- Voltage code (ex. 160V:161, 400V:401)
- Series code
- Category

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 ～ 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.

KXF Series

◆STANDARD RATINGS

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

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