KXF Series

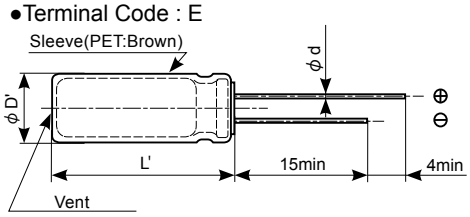
- For LED light circuits and other long life applications
- Endurance with ripple current : 15,000 to 20,000 hours at 105℃
- Non solvent resistant type
- **RoHS Compliant**

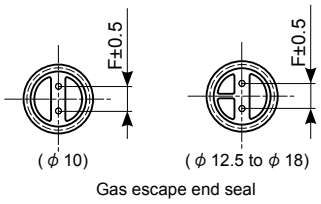
◆ SPECIFICATIONS

Items	Characteristics				
Category Temperature Range	-40 to +105℃ (160 to 400Vdc) -25 to 105℃ (450Vdc)				
Rated Voltage Range	160 to 450Vdc				
Capacitance Tolerance	±20% (M)				(at 20℃ , 120Hz)
Leakage Current		After 1 minute	After 5 minutes		
	CV ≦ 1,000	I=0.1CV + 40	I=0.03CV + 15		
	CV ＞ 1,000	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	400V	450V	
	Z(-25℃) / Z(+20℃)	3	6	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





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 contact us for mass production schedule.
Specifications in this bulletin are subject to change without notice.

KXF Series

◆ STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tanδ	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	10×20	0.24	88	EKXF451E□□8R2MJ20S
	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
	22	16×20	0.24	292	EKXF451E□□220ML20S
	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.

◆ RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency(Hz)	120	1k	10k	100k
Coefficient	1.00	1.75	2.25	2.50

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise.
When long life performance is required in actual use, the rms ripple current has to be reduced.

Please contact us for mass production schedule.
Specifications in this bulletin are subject to change without notice.