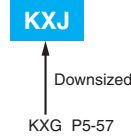


KXJ Series

- 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.



**500V
Lineup!**

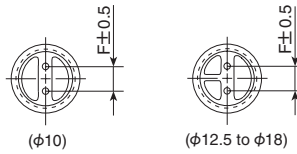
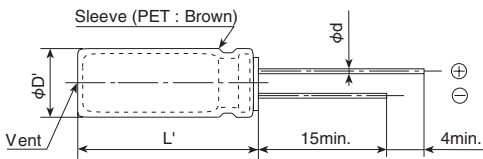


◆ SPECIFICATIONS

Items	Characteristics			
Category	-40 to +105°C (160 to 450V _{dc}) -25 to +105°C (500V _{dc})			
Temperature Range				
Rated Voltage Range	160 to 500V _{dc}			
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 _{dc})	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 _{dc})	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 _{dc})	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]

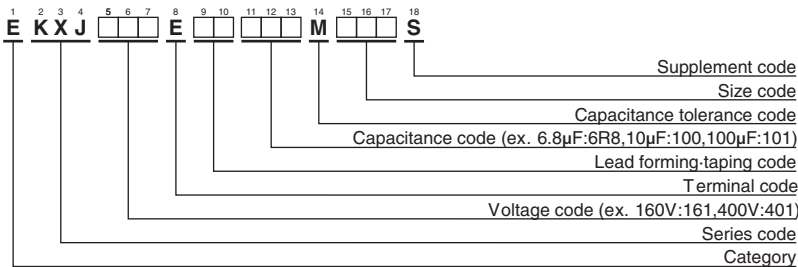
- Terminal Code : E



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)"

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (mA rms/105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (mA rms/105°C, 120Hz)	Part No.
160	39	10×16	0.20	245	EKXJ161E□□390MJ16S	220	27	10×16	0.20	200	EKXJ221E□□270MJ16S
	56	10×20	0.20	315	EKXJ161E□□560MJ20S		39	10×20	0.20	265	EKXJ221E□□390MJ20S
	82	10×25	0.20	415	EKXJ161E□□820MJ25S		56	10×25	0.20	345	EKXJ221E□□560MJ25S
	82	10×30	0.20	445	EKXJ161E□□820MJ30S		56	10×30	0.20	370	EKXJ221E□□560MJ30S
	100	12.5×20	0.20	575	EKXJ161E□□101MK20S		68	12.5×20	0.20	475	EKXJ221E□□680MK20S
	120	10×35	0.20	570	EKXJ161E□□121MJ35S		82	10×35	0.20	470	EKXJ221E□□820MJ35S
	120	14.5×20	0.20	675	EKXJ161E□□121MU20S		82	14.5×20	0.20	555	EKXJ221E□□820MU20S
	150	10×40	0.20	665	EKXJ161E□□151MJ40S		100	10×40	0.20	545	EKXJ221E□□101MJ40S
	150	10×45	0.20	695	EKXJ161E□□151MJ45S		100	10×45	0.20	565	EKXJ221E□□101MJ45S
	150	12.5×25	0.20	765	EKXJ161E□□151MK25S		100	12.5×25	0.20	625	EKXJ221E□□101MK25S
	180	10×50	0.20	785	EKXJ161E□□181MJ50S		120	10×50	0.20	645	EKXJ221E□□121MJ50S
	180	12.5×30	0.20	885	EKXJ161E□□181MK30S		120	12.5×30	0.20	725	EKXJ221E□□121MK30S
	180	14.5×25	0.20	890	EKXJ161E□□181MU25S		120	14.5×25	0.20	725	EKXJ221E□□121MU25S
	180	16×20	0.20	855	EKXJ161E□□181ML20S		120	16×20	0.20	695	EKXJ221E□□121ML20S
	220	12.5×35	0.20	1,040	EKXJ161E□□221MK35S		150	12.5×35	0.20	860	EKXJ221E□□151MK35S
	220	16×25	0.20	1,020	EKXJ161E□□221ML25S		150	16×25	0.20	845	EKXJ221E□□151ML25S
	220	18×20	0.20	990	EKXJ161E□□221MM20S		150	18×20	0.20	815	EKXJ221E□□151MM20S
	270	12.5×40	0.20	1,190	EKXJ161E□□271MK40S		180	12.5×40	0.20	975	EKXJ221E□□181MK40S
	270	12.5×45	0.20	1,230	EKXJ161E□□271MK45S		180	12.5×45	0.20	1,005	EKXJ221E□□181MK45S
	270	14.5×31.5	0.20	1,170	EKXJ161E□□271MUN3S		180	14.5×31.5	0.20	955	EKXJ221E□□181MUN3S
	270	14.5×35.5	0.20	1,210	EKXJ161E□□271MUP1S		220	12.5×50	0.20	1,145	EKXJ221E□□221MK50S
	330	12.5×50	0.20	1,400	EKXJ161E□□331MK50S		220	14.5×35.5	0.20	1,095	EKXJ221E□□221MUP1S
	330	14.5×40	0.20	1,385	EKXJ161E□□331MU40S		220	14.5×40	0.20	1,130	EKXJ221E□□221MU40S
	330	16×31.5	0.20	1,350	EKXJ161E□□331MLN3S		220	16×31.5	0.20	1,100	EKXJ221E□□221MLN3S
	330	18×25	0.20	1,290	EKXJ161E□□331MM25S		220	18×25	0.20	1,050	EKXJ221E□□221MM25S
	390	14.5×45	0.20	1,545	EKXJ161E□□391MU45S		270	14.5×45	0.20	1,285	EKXJ221E□□271MU45S
	390	16×35.5	0.20	1,500	EKXJ161E□□391MLP1S		270	14.5×50	0.20	1,315	EKXJ221E□□271MU50S
	470	14.5×50	0.20	1,735	EKXJ161E□□471MU50S		270	16×35.5	0.20	1,245	EKXJ221E□□271MLP1S
	470	16×40	0.20	1,700	EKXJ161E□□471ML40S		270	18×31.5	0.20	1,260	EKXJ221E□□271MMN3S
	470	16×45	0.20	1,730	EKXJ161E□□471ML45S		330	16×40	0.20	1,425	EKXJ221E□□331ML40S
	470	18×31.5	0.20	1,660	EKXJ161E□□471MMN3S		330	16×45	0.20	1,450	EKXJ221E□□331ML45S
	470	18×35.5	0.20	1,715	EKXJ161E□□471MMP1S		330	18×35.5	0.20	1,440	EKXJ221E□□331MMP1S
	560	16×50	0.20	1,920	EKXJ161E□□561ML50S		390	16×50	0.20	1,600	EKXJ221E□□391ML50S
560	18×40	0.20	1,905	EKXJ161E□□561MM40S	390	18×40	0.20	1,590	EKXJ221E□□391MM40S		
680	18×45	0.20	2,130	EKXJ161E□□681MM45S	390	18×45	0.20	1,620	EKXJ221E□□391MM45S		
680	18×50	0.20	2,145	EKXJ161E□□681MM50S	470	18×50	0.20	1,785	EKXJ221E□□471MM50S		
200	27	10×16	0.20	200	EKXJ201E□□270MJ16S	250	22	10×16	0.20	185	EKXJ251E□□220MJ16S
	47	10×20	0.20	290	EKXJ201E□□470MJ20S		33	10×20	0.20	240	EKXJ251E□□330MJ20S
	56	10×25	0.20	345	EKXJ201E□□560MJ25S		47	10×25	0.20	315	EKXJ251E□□470MJ25S
	68	10×30	0.20	405	EKXJ201E□□680MJ30S		47	10×30	0.20	340	EKXJ251E□□470MJ30S
	82	12.5×20	0.20	520	EKXJ201E□□820MK20S		56	12.5×20	0.20	430	EKXJ251E□□560MK20S
	100	10×35	0.20	520	EKXJ201E□□101MJ35S		68	10×35	0.20	430	EKXJ251E□□680MJ35S
	100	12.5×25	0.20	625	EKXJ201E□□101MK25S		68	14.5×20	0.20	505	EKXJ251E□□680MU20S
	100	14.5×20	0.20	615	EKXJ201E□□101MU20S		82	10×40	0.20	495	EKXJ251E□□820MJ40S
	120	10×40	0.20	595	EKXJ201E□□121MJ40S		82	10×45	0.20	515	EKXJ251E□□820MJ45S
	120	10×45	0.20	620	EKXJ201E□□121MJ45S		82	12.5×25	0.20	565	EKXJ251E□□820MK25S
	120	12.5×30	0.20	725	EKXJ201E□□121MK30S		100	10×50	0.20	585	EKXJ251E□□101MJ50S
	120	16×20	0.20	695	EKXJ201E□□121ML20S		100	12.5×30	0.20	660	EKXJ251E□□101MK30S
	150	10×50	0.20	720	EKXJ201E□□151MJ50S		100	14.5×25	0.20	665	EKXJ251E□□101MU25S
	150	12.5×35	0.20	860	EKXJ201E□□151MK35S		100	16×20	0.20	635	EKXJ251E□□101ML20S
	150	14.5×25	0.20	810	EKXJ201E□□151MU25S		120	12.5×35	0.20	770	EKXJ251E□□121MK35S
	180	14.5×31.5	0.20	955	EKXJ201E□□181MUN3S		120	16×25	0.20	755	EKXJ251E□□121ML25S
	180	16×25	0.20	925	EKXJ201E□□181ML25S		120	18×20	0.20	730	EKXJ251E□□121MM20S
	180	18×20	0.20	895	EKXJ201E□□181MM20S		150	12.5×40	0.20	890	EKXJ251E□□151MK40S
	220	12.5×40	0.20	1,075	EKXJ201E□□221MK40S		150	12.5×45	0.20	920	EKXJ251E□□151MK45S
	220	12.5×45	0.20	1,110	EKXJ201E□□221MK45S		150	14.5×31.5	0.20	870	EKXJ251E□□151MUN3S
	220	14.5×35.5	0.20	1,095	EKXJ201E□□221MUP1S		180	12.5×50	0.20	1,035	EKXJ251E□□181MK50S
	220	18×25	0.20	1,050	EKXJ201E□□221MM25S		180	14.5×35.5	0.20	990	EKXJ251E□□181MUP1S
	270	12.5×50	0.20	1,265	EKXJ201E□□271MK50S		180	14.5×40	0.20	1,020	EKXJ251E□□181MU40S
	270	14.5×40	0.20	1,250	EKXJ201E□□271MU40S		180	16×31.5	0.20	995	EKXJ251E□□181MLN3S
	270	14.5×45	0.20	1,290	EKXJ201E□□271MU45S		180	18×25	0.20	950	EKXJ251E□□181MM25S
	270	16×31.5	0.20	1,220	EKXJ201E□□271MLN3S		220	14.5×45	0.20	1,160	EKXJ251E□□221MU45S
	270	16×35.5	0.20	1,250	EKXJ201E□□271MLP1S		220	14.5×50	0.20	1,185	EKXJ251E□□221MU50S
	330	14.5×50	0.20	1,450	EKXJ201E□□331MU50S		220	16×35.5	0.20	1,125	EKXJ251E□□221MLP1S
	330	16×40	0.20	1,425	EKXJ201E□□331ML40S		220	18×31.5	0.20	1,135	EKXJ251E□□221MMN3S
	330	18×31.5	0.20	1,395	EKXJ201E□□331MMN3S		270	16×40	0.20	1,285	EKXJ251E□□271ML40S
	390	16×45	0.20	1,575	EKXJ201E□□391ML45S		270	16×45	0.20	1,310	EKXJ251E□□271ML45S
	390	18×35.5	0.20	1,565	EKXJ201E□□391MMP1S		270	18×35.5	0.20	1,300	EKXJ251E□□271MMP1S
	470	16×50	0.20	1,755	EKXJ201E□□471ML50S		330	16×50	0.20	1,475	EKXJ251E□□331ML50S
470	18×40	0.20	1,745	EKXJ201E□□471MM40S	330	18×40	0.20	1,460	EKXJ251E□□331MM40S		
470	18×45	0.20	1,770	EKXJ201E□□471MM45S	330	18×45	0.20	1,485	EKXJ251E□□331MM45S		
560	18×50	0.20	1,945	EKXJ201E□□561MM50S	390	18×50	0.20	1,625	EKXJ251E□□391MM50S		

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

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (mA _{rms} /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_{dc})

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_{dc})

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

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[LKMD1401H181MF](#) [LKMI2502G820MF](#) [LKMJ2001J122MF](#) [LKML2501C472MF](#) [LKMJ4002C681MF](#) [450MXH330MEFCSN25X45](#)
[450MXK330MA2RFC22X50](#) [63ZLH560MEFCG412.5X30](#) [ELH2DM331O25KT](#) [ELH2DM471P30KT](#)