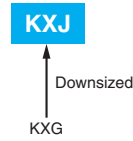


KXJ Series

- 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!**

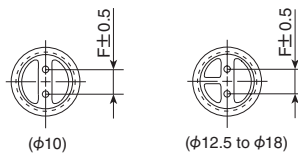
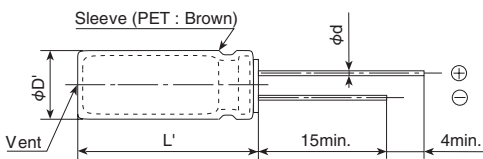


SPECIFICATIONS

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]

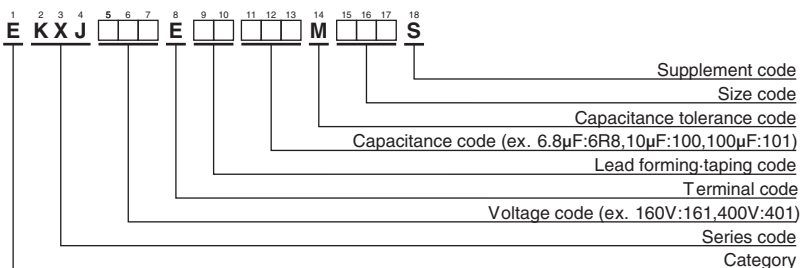
- Terminal Code : E



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.
350	12	10×16	0.24	135	EKXJ351E□□120MJ16S	420	6.8	10×16	0.24	105	EKXJ421E□□6R8MJ16S
	22	10×20	0.24	200	EKXJ351E□□220MJ20S		12	10×20	0.24	150	EKXJ421E□□120MJ20S
	27	10×25	0.24	240	EKXJ351E□□270MJ25S		15	10×25	0.24	185	EKXJ421E□□150MJ25S
	27	10×30	0.24	255	EKXJ351E□□270MJ30S		18	10×30	0.24	215	EKXJ421E□□180MJ30S
	33	12.5×20	0.24	330	EKXJ351E□□330MK20S		22	12.5×20	0.24	285	EKXJ421E□□220MK20S
	39	10×35	0.24	325	EKXJ351E□□390MJ35S		27	10×35	0.24	275	EKXJ421E□□270MJ35S
	47	10×40	0.24	375	EKXJ351E□□470MJ40S		27	10×40	0.24	290	EKXJ421E□□270MJ40S
	47	12.5×25	0.24	425	EKXJ351E□□470MK25S		27	12.5×25	0.24	340	EKXJ421E□□270MK25S
	47	14.5×20	0.24	420	EKXJ351E□□470MU20S		27	14.5×20	0.24	335	EKXJ421E□□270MU20S
	56	10×45	0.24	425	EKXJ351E□□560MJ45S		33	10×45	0.24	335	EKXJ421E□□330MJ45S
	56	12.5×30	0.24	495	EKXJ351E□□560MK30S		33	12.5×30	0.24	400	EKXJ421E□□330MK30S
	56	16×20	0.24	475	EKXJ351E□□560ML20S		33	16×20	0.24	385	EKXJ421E□□330ML20S
	68	10×50	0.24	485	EKXJ351E□□680MJ50S		39	10×50	0.24	375	EKXJ421E□□390MJ50S
	68	12.5×35	0.24	580	EKXJ351E□□680MK35S		39	14.5×25	0.24	435	EKXJ421E□□390MU25S
	68	14.5×25	0.24	545	EKXJ351E□□680MU25S		47	12.5×35	0.24	505	EKXJ421E□□470MK35S
	68	18×20	0.24	550	EKXJ351E□□680MM20S		47	16×25	0.24	500	EKXJ421E□□470ML25S
	82	12.5×40	0.24	655	EKXJ351E□□820MK40S		47	18×20	0.24	480	EKXJ421E□□470MM20S
	82	14.5×31.5	0.24	645	EKXJ351E□□820MUN3S		56	12.5×40	0.24	570	EKXJ421E□□560MK40S
	82	16×25	0.24	625	EKXJ351E□□820ML25S		56	12.5×45	0.24	590	EKXJ421E□□560MK45S
	100	12.5×45	0.24	750	EKXJ351E□□101MK45S		56	14.5×31.5	0.24	560	EKXJ421E□□560MUN3S
	100	12.5×50	0.24	770	EKXJ351E□□101MK50S		68	12.5×50	0.24	670	EKXJ421E□□680MK50S
	100	14.5×35.5	0.24	740	EKXJ351E□□101MUP1S		68	14.5×35.5	0.24	640	EKXJ421E□□680MUP1S
	100	16×31.5	0.24	740	EKXJ351E□□101MLN3S		68	14.5×40	0.24	660	EKXJ421E□□680MU40S
	100	18×25	0.24	710	EKXJ351E□□101MM25S		68	16×31.5	0.24	645	EKXJ421E□□680MLN3S
	120	14.5×40	0.24	835	EKXJ351E□□121MU40S		68	18×25	0.24	615	EKXJ421E□□680MM25S
	120	14.5×45	0.24	860	EKXJ351E□□121MU45S		82	14.5×45	0.24	750	EKXJ421E□□820MU45S
	120	16×35.5	0.24	830	EKXJ351E□□121MLP1S		82	16×35.5	0.24	725	EKXJ421E□□820MLP1S
	150	14.5×50	0.24	980	EKXJ351E□□151MU50S		82	18×31.5	0.24	730	EKXJ421E□□820MMN3S
	150	16×40	0.24	960	EKXJ351E□□151ML40S		100	14.5×50	0.24	845	EKXJ421E□□101MU50S
	150	16×45	0.24	975	EKXJ351E□□151ML45S		100	16×40	0.24	825	EKXJ421E□□101ML40S
	150	18×31.5	0.24	940	EKXJ351E□□151MMN3S		100	16×45	0.24	840	EKXJ421E□□101ML45S
	180	16×50	0.24	1,090	EKXJ351E□□181MU50S		100	18×35.5	0.24	835	EKXJ421E□□101MMP1S
	180	18×35.5	0.24	1,065	EKXJ351E□□181MMP1S		120	16×50	0.24	935	EKXJ421E□□121ML50S
180	18×40	0.24	1,080	EKXJ351E□□181MM40S	120	18×40	0.24	930	EKXJ421E□□121MM40S		
220	18×45	0.24	1,210	EKXJ351E□□221MM45S	120	18×45	0.24	945	EKXJ421E□□121MM45S		
220	18×50	0.24	1,220	EKXJ351E□□221MM50S	150	18×50	0.24	1,060	EKXJ421E□□151MM50S		
400	10	10×16	0.24	125	EKXJ401E□□100MJ16S	450	6.8	10×16	0.24	105	EKXJ451E□□6R8MJ16S
	18	10×20	0.24	180	EKXJ401E□□180MJ20S		12	10×20	0.24	150	EKXJ451E□□120MJ20S
	22	10×25	0.24	215	EKXJ401E□□220MJ25S		15	10×25	0.24	185	EKXJ451E□□150MJ25S
	27	10×30	0.24	255	EKXJ401E□□270MJ30S		18	10×30	0.24	215	EKXJ451E□□180MJ30S
	27	12.5×20	0.24	300	EKXJ401E□□270MK20S		18	12.5×20	0.24	255	EKXJ451E□□180MK20S
	33	10×35	0.24	300	EKXJ401E□□330MJ35S		22	10×35	0.24	250	EKXJ451E□□220MJ35S
	39	10×40	0.24	340	EKXJ401E□□390MJ40S		27	10×40	0.24	290	EKXJ451E□□270MJ40S
	39	10×45	0.24	355	EKXJ401E□□390MJ45S		27	10×45	0.24	305	EKXJ451E□□270MJ45S
	39	12.5×25	0.24	390	EKXJ401E□□390MK25S		27	12.5×25	0.24	340	EKXJ451E□□270MK25S
	39	14.5×20	0.24	385	EKXJ401E□□390MU20S		27	14.5×20	0.24	335	EKXJ451E□□270MU20S
	47	12.5×30	0.24	455	EKXJ401E□□470MK30S		33	12.5×30	0.24	400	EKXJ451E□□330MK30S
	47	16×20	0.24	435	EKXJ401E□□470ML20S		33	14.5×25	0.24	400	EKXJ451E□□330MU25S
	56	10×50	0.24	440	EKXJ401E□□560MJ50S		33	16×20	0.24	385	EKXJ451E□□330ML20S
	56	12.5×35	0.24	525	EKXJ401E□□560MK35S		39	10×50	0.24	375	EKXJ451E□□390MJ50S
	56	14.5×25	0.24	495	EKXJ401E□□560MU25S		39	12.5×35	0.24	460	EKXJ451E□□390MK35S
	56	18×20	0.24	500	EKXJ401E□□560MM20S		39	18×20	0.24	440	EKXJ451E□□390MM20S
	68	12.5×40	0.24	600	EKXJ401E□□680MK40S		47	12.5×40	0.24	525	EKXJ451E□□470MK40S
	68	14.5×31.5	0.24	585	EKXJ401E□□680MUN3S		47	14.5×31.5	0.24	515	EKXJ451E□□470MUN3S
	68	16×25	0.24	570	EKXJ401E□□680ML25S		47	16×25	0.24	500	EKXJ451E□□470ML25S
	82	12.5×45	0.24	680	EKXJ401E□□820MK45S		56	12.5×45	0.24	590	EKXJ451E□□560MK45S
	82	12.5×50	0.24	700	EKXJ401E□□820MK50S		56	14.5×35.5	0.24	580	EKXJ451E□□560MUP1S
	82	14.5×35.5	0.24	670	EKXJ401E□□820MUP1S		56	16×31.5	0.24	585	EKXJ451E□□560MLN3S
	82	16×31.5	0.24	670	EKXJ401E□□820MLN3S		56	18×25	0.24	560	EKXJ451E□□560MM25S
	82	18×25	0.24	640	EKXJ401E□□820MM25S		68	12.5×50	0.24	670	EKXJ451E□□680MK50S
	100	14.5×40	0.24	760	EKXJ401E□□101MU40S		68	14.5×40	0.24	660	EKXJ451E□□680MU40S
	100	14.5×45	0.24	785	EKXJ401E□□101MU45S		68	14.5×45	0.24	680	EKXJ451E□□680MU45S
	100	16×35.5	0.24	760	EKXJ401E□□101MLP1S		68	16×35.5	0.24	660	EKXJ451E□□680MLP1S
120	14.5×50	0.24	875	EKXJ401E□□121MU50S	82	14.5×50	0.24	765	EKXJ451E□□820MU50S		
120	16×40	0.24	860	EKXJ401E□□121ML40S	82	16×40	0.24	750	EKXJ451E□□820ML40S		
120	16×45	0.24	875	EKXJ401E□□121ML45S	82	16×45	0.24	760	EKXJ451E□□820ML45S		
120	18×31.5	0.24	840	EKXJ401E□□121MMN3S	82	18×31.5	0.24	730	EKXJ451E□□820MMN3S		
120	18×35.5	0.24	870	EKXJ401E□□121MMP1S	100	16×50	0.24	855	EKXJ451E□□101ML50S		
150	16×50	0.24	995	EKXJ401E□□151ML50S	100	18×35.5	0.24	835	EKXJ451E□□101MMP1S		
150	18×40	0.24	985	EKXJ401E□□151MM40S	120	18×40	0.24	930	EKXJ451E□□121MM40S		
180	18×45	0.24	1,095	EKXJ401E□□181MM45S	120	18×45	0.24	945	EKXJ451E□□121MM45S		
220	18×50	0.24	1,220	EKXJ401E□□221MM50S	150	18×50	0.24	1,060	EKXJ451E□□151MM50S		

□ □ : 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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