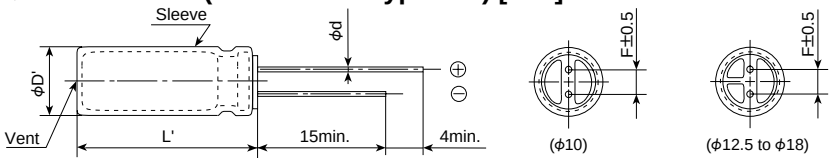
KXG Series

- Downsized from current KMX series
- For electronic ballast circuits and other long life required applications
- Endurance with ripple current : 105℃ 8000 to 10000hours
- Non solvent-proof type

◆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≦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℃)
Dissipation Factor (tanδ)	Rated voltage (Vdc)	160 to 250V	350 & 400V	450V	
	tanδ (Max.)	0.20	0.24	0.24	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	160 to 250V	350 & 400V	450V	
	Z(−25℃)/Z(+20℃)	3	5	6	
	Z(−40℃)/Z(+20℃)	6	6	—	(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 for 10000 hours (8000 hours for φ10) at 105℃.				
	Capacitance change	≦±20% of the initial value			
	D.F. (tanδ)	≦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℃ after exposing them for 1000 hours at 105℃ without voltage applied.				
	Capacitance change	≦±20% of the initial value			
	D.F. (tanδ)	≦200% of the initial specified value			
	Leakage current	≦500% of the initial specified value			

◆DIMENSIONS (Radial Lead Type=VB) [mm]



Gas escaped 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

KXG 160 VB 47 M J20

- J20 : Case code
- M : Cap tolerance (±20%)
- 47 : Nominal cap code
- VB : Radial lead type
- 160 : Rated voltage in volts
- KXG : Series name

Capacitance	Code
6.8μF	6R8
10μF	10
100μF	100

◆RATED RIPPLE CURRENT MULTIPLIERS

- Frequency Multipliers

Capacitance (μF) \ Frequency (Hz)	120	1k	10k	100k
6.8 to 82	1.0	1.75	2.25	2.50
100 to 330	1.0	1.67	1.75	2.25

KXG Series

◆STANDARD RATINGS

Vdc	160				200				250			
Items / (μF)	Case size φD×L (mm)	Case code	Rated ripple current (mArms/105℃)		Case size φD×L (mm)	Case code	Rated ripple current (mArms/105℃)		Case size φD×L (mm)	Case code	Rated ripple current (mArms/105℃)	
			120Hz	100kHz			120Hz	100kHz			120Hz	100kHz
10	10×16	J16	125	315	10×16	J16	125	315	10×20	J20	140	350
22	10×20	J20	200	500	10×20	J20	200	500	10×20	J20	200	500
33	10×20	J20	250	625	10×20	J20	260	650	12.5×20	K20	320	800
47	10×20	J20	300	750	12.5×20	K20	390	975	12.5×20	K20	390	975
68	12.5×20	K20	470	1,175	12.5×20	K20	470	1,175	16×20	L20	520	1,300
82	12.5×20	K20	510	1,275	16×20	L20	550	1,375	16×20	L20	550	1,375
100	12.5×25	K25	620	1,395	16×20	L20	630	1,420	16×25	L25	680	1,530
	16×20	L20	630	1,420								
150	16×20	L20	770	1,735	16×25	L25	840	1,890	18×25	M25	860	1,935
220	16×25	L25	1,020	2,295	18×25	M25	1,050	2,365	18×31.5	M31	1,130	2,545
330	18×31.5	M31	1,390	3,130	18×35.5	M35	1,430	3,220				

Vdc	350				400				450			
Items / (μF)	Case size φD×L (mm)	Case code	Rated ripple current (mArms/105℃)		Case size φD×L (mm)	Case code	Rated ripple current (mArms/105℃)		Case size φD×L (mm)	Case code	Rated ripple current (mArms/105℃)	
			120Hz	100kHz			120Hz	100kHz			120Hz	100kHz
6.8	10×16	J16	110	275	10×16	J16	110	275	10×20	J20	110	275
10	10×20	J20	140	350	10×20	J20	140	350	12.5×20	K20	180	450
15					12.5×20	K20	220	550	12.5×25	K25	240	600
22	12.5×20	K20	260	650	12.5×20	K20	260	650	16×20	L20	290	725
33	16×20	L20	360	900	16×20	L20	360	900	16×25	L25	390	975
									18×20	M20	380	950
47	16×20	L20	430	1,075	16×25	L25	470	1,175	18×25	M25	480	1,200
					18×20	M20	450	1,125				
68	16×25	L25	560	1,400	18×25	M25	585	1,465	18×31.5	M31	630	1,575
	18×20	M20	550	1,375								
82	18×25	M25	610	1,525	18×25	M25	610	1,525	18×35.5	M35	715	1,785
100	18×25	M25	700	1,575	18×31.5	M31	765	1,720	18×40	M40	800	1,800
120	18×31.5	M31	830	1,865	18×35.5	M35	865	1,945				
150	18×35.5	M35	960	2,160	18×40	M40	985	2,215				