KMG Series

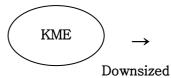
ullet 105°C 1,000~2,000Hrs assured

- General
- EKMG Series: Ecological capacitors with the same characteristics as KMG





WV \leq 100 V_{DC}





SPECIFICATIONS

Item	Characteristics														
Rated Voltage Range	6.3~100V	DC				10	60 ~	400V	DC		$450~\mathrm{V_{DC}}$				
Operating Temperature Range	-55 ∼ +10:		-40 ~ +105 ℃ -25 ~ +105 ℃								rc				
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)														
	The following specifications shall be satisfied when the rated voltage is applied for the required time														
Leakage Current(max.) at 20℃	≤100V _D	>100V _{DC}													
	After 1 minute: 0.03 C whichever is greater After 2 minute: 0.01 C	After 1 minute						A	After 5 minute						
	whichever is greater	-,	CV≤1,000 CV>1,000					000	CV≤1,0	00	CV>	1,000			
	Where, C=Nominal cap V=Rated Volta		0	0.1CV+40 0.04CV+100					0.03CV-	+15	15 0.02CV+25				
	Rated Voltage(V _{DC})	6.3	10		16	25	35	5	50	63	100	160~2	250	350~450	
Dissipation Factor	Tanδ(Max.)	0.34	0.24	0	.20	0.16	0.1	14	0.12	0.10	0.09	0.2		0.24	
(Tanδ)	When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase														
	(at 20 ℃, 120Hz)														
Temperature	Rated Voltage(V _{DC})	6.3	10	16	: :	25 3	35	50	63	~160	60 200~250		~400	450	
Characteristics	$Z(-25^{\circ})/Z(20^{\circ}) \qquad \qquad 5 \qquad 4 \qquad 3$					2	2	2	2 3		3	3 6		6	
(Max. Impedance ratio)	Z(-40°C)/Z(20°C) 12 10 8 5 4									4	5 6		6	-	
													(at 12	20Hz)	
	The following specifications shall be satisfied when the capacitors are restored to after the rated voltage applied for 2,000 hours at 105° (where, 1000 hours ≤ 80)														
Load Life	Capacitance change ≤±20% of the initial value														
	Tanδ ≤200% of the initial specified value Leakage current ≤ The initial specified value														
	The following specificat						e caj	pacito	ors ar	e resto	red to 20	°C afte	er exp	osing the	m
	for 1,000hours at 105 $^{\circ}\!$														
Shelf Life	a minimum of 30 minut (where, 500 hours ≤ 8)		ast 24 h	lour	rs an	d not m	ore t	than 4	18 hou	ırs befo	ore the m	easure	ment		
Shell Life	Capacitance change ≤:		of the in	itia	l valı	ıe									
	Tanδ ≤20	00% of	the init	ial s	speci	fied val									
					ed va	lue(wh	ere, î	200%	for≥	WV 1	60 V _{DC})				
Others	Satisfied characteristics	W of I	KS C 64	21											

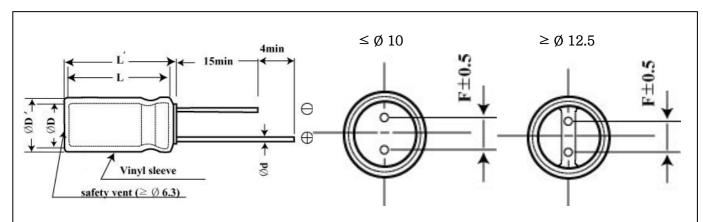
RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Freq(Hz) Cap.(μF)	60	120	300	1K	10K
0.1~6.8	0.65	1.00	1.35	1.75	2.30
10~68	0.75	1.00	1.25	1.50	1.75
100~1,000	0.80	1.00	1.15	1.30	1.40
2,200~	0.85	1.00	1.03	1.05	1.08

DIMENSIONS OF KMG Series

Unit(mm)



Ø D	F	Ød			
5	2	0.5			
6.3	2.5	0.5			
8	3.5	0.6			
10	5	0.6			
12.5	5	0.6			
16	7.5	0.8			
18	7.5	0.8			

Marking: BROWN SLEEVE, WHITE INK

 \emptyset D≤8, \emptyset D' \le D+0.5 and L' \le L+1.5 \emptyset D>8, \emptyset D' \le D+0.5 and L' \le L+2.0

RATINGS OF KMG Series

V _{DC}	6.3(OJ)		10(1	A)	16(1	16(1C)		E)	35(1V)		50(1H)		63(1	IJ)
0.1											5×11	2.1	5×11	3.2
0.22											5×11	3.2	5×11	4.3
0.33											5×11	6.3	5×11	7.2
0.47											5×11	10	5×11	11
0.68											5×11	12	5×11	13
1											5×11	13	5×11	15
2.2											5×11	18	5×11	19
3.3											5×11	30	5×11	33
4.7							5×11	25	5×11	27	5×11	37	5×11	39
6.8							5×11	31	5×11	33	5×11	44	5×11	48
10					5×11	35	5×11	37	5×11	40	5×11	54	5×11	59
22			5×11	48	5×11	53	5×11	56	5×11	67	5×11	79	5×11	87
33	5×11	52	5×11	56	5×11	60	5×11	75	5×11	80	5x11	97	6.3x11	122
47	5×11	61	5×11	66	5×11	77	5x11	80	5x11	101	6.3x11	133	6.3x11	146
68	5×11	69	5×11	83	5×11	92	5x11	113	6.3x11	138	8x11.5	189	8x11.5	207
100	5×11	90	5×11	100	5x11	125	6.3x11	159	6.3x11	168	8x11.5	229	10x12.5	251
220	5×11	153	5x11	170	6.3x11	213	8x11.5	277	8x11.5	294	10x12.5	395	10x16	474
330	6.3x11	216	6.3x11	239	8x11.5	308	8x11.5	340	10x12.5	419	10x16	529	10x20	633
470	6.3x11	258	6.3x11	286	8x11.5	366	10x12.5	471	10x16	547	10x20	690	12.5x20	886
680	8x11.5	365	10x12.5	472	10x12.5	480	10x16	620	12.5x16	777	12.5x20	973	12.5x25	1,160
1,000	8x11.5	443	10x12.5	571	10x16	680	10x20	821	12.5x20	1,023	12.5x25	1,287	16x25	1,565
2,200	10x20	817	12.5x20	886	12.5x20	1,108	12.5x25	1,297	16x25	1,497	16x35.5	1,884		
3,300	10x20	1,032	12.5x20	1,205	12.5x25	1,389	16x25	1,646	16x35.5	1,950	18x35.5	2,260		
4,700	12.5x20	1,280	12.5x25	1,492	16x25	1,740	16x31.5	2,012	18x35.5	2,335				
6,800	12.5x25	1,554	16x25	1,824	16x31.5	2,081	18x35.5	2,452						
10,000	16x25	1,897	16x35.5	2,201	18x35.5	2,527								
15,000	16x35.5	2,344	18x35.5	2,606										

 $[\]blacktriangle$ Permissible Ripple Current(mArms / 105 °C, 120Hz)

[▲] Case Size фDXL(mm)

V _{DC} μF	100(2A) 160(2C)		2C)	200(2D)		250(2E)		350(2V)		400(2G)		450(2	W)	
0.1	5x11	3.6												
0.22	5x11	4.8												
0.33	5x11	7.8												
0.47	5x11	12	6.3x11	12	6.3x11	12	6.3x11	12	6.3x11	12				
0.68	5x11	14	6.3x11	14	6.3x11	15	6.3x11	15	6.3x11	15				
1	5x11	16	6.3x11	16	6.3x11	17	6.3x11	17	6.3x11	18	6.3x11	19	8x11.5	16
2.2	5x11	21	6.3x11	22	6.3x11	24	6.3x11	27	8x11.5	29	8x11.5	30	10x12.5	28
3.3	5x11	34	6.3x11	35	6.3x11	36	8x11.5	37	8x11.5	38	10x12.5	41	10x16	38
4.7	5x11	40	6.3x11	41	8x11.5	42	8x11.5	45	10x12.5	47	10x16	49	10x20	45
6.8	5x11	49	8x11.5	52	10x12.5	59	10x12.5	60	10x16	62	10x16	65	10x20	59
10	6.3x11	61	10x12.5	71	10x12.5	72	10x16	74	10x20	79	10x20	86	12.5x20	84
22	6.3x11	100	10x20	117	10x20	119	10x20	127	12.5x20	150	12.5x25	163	16x25	151
33	8x11.5	144	10x20	156	10x20	158	12.5x20	184	16x25	200	16x25	222	16x31.5	203
47	10x12.5	199	12.5x20	218	12.5x20	220	12.5x25	238	16x25	265	16x31.5	290	16x35.5	254
68	10x16	264	12.5x25	287	16x20	293	16x25	318	16x31.5	348	18x35.5	392		
100	10x20	349	12.5x25	360	16x25	386	16x31.5	422	18x31.5	450				
220	12.5x25	662	16x31.5	680	18x35.5	705	18x40	730						
330	16x20	810	18x35.5	863										
470	16x25	1072												
680	18x31.5	1410												
1,000	18x40	2020												

 $[\]blacktriangle$ Permissible Ripple Current(mArms / 105°C, 120Hz)

[▲] Case Size ΦDXL(mm)