MK Series

・85℃, 2000 hours standard series (紋波疊加)

● SPECIFICATIONS

Items	Characteristics
Category Temperature Range	-40 to +85°C
Rated Voltage Range	160v to 450Vdc
Capacitance Tolerance	± 20% (M) (at 20°C ,120Hz)
Leakage Current	I=0.01CV +3μA , whichever is greater. Where, I :Max. Leakage current (μA). C : Nominal capacitance (μF) .V :Rated voltage(V) (at 20°C , after 2 minutes)

Dissipation Factor (tan δ)

Rated voltage (Vdc)	160V	200V	250V	350V	400V	450V
tan δ (Max.)	0.15	0.15	0.15	0.20	0.20	0.20

(at 20°C ,120Hz)

Low Temperature Characteristics

Impedance ration max at 120Hz

Working voltage	160v	200v	250v	350v	400v	450v
Z-25°C/ Z+20°C	3	3	3	5	15	15

Load. Life

The following specifications shall be satisfied when the capacitors are restored to 20°C after the voltage is applied for 2000 hours at 85°C

Capacitance change	≦±20% of the initial value
DF (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 1000 hours at 85°C without voltage applied.

Capacitance change	≦±20% of the initial value
DF (tan δ)	≦200 % of the initial specified value
Leakage current	≦The initial specified value

Ripple Current Multiplier

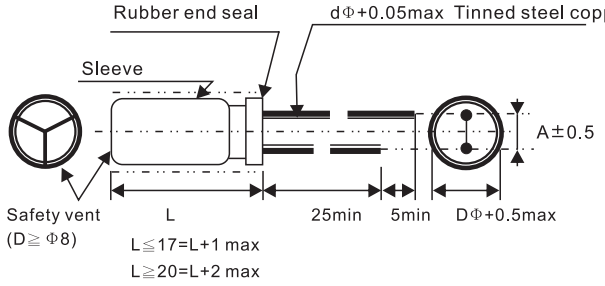
Temperature coefficient

Temperature(℃)	~55	60	70	85
Factor	1.65	1.5	1.3	1

Frequency coefficient

cap \ freq	60	120	1k	10k	100k
~100	0.70	1.00	1.40	1.50	1.50
100up	0.75	1.00	1.30	1.35	1.35

● Diagram: (Unit: mm)



Body Dia ΦD	5	6	8	10	13		16	18	22
					L≦21	L≧25			
Lead Dia Φd	0.5			0.6	0.6	0.8	0.8	0.8	0.8
Lead Space A	2.0	2.5	3.5	5			7.5	7.5/10	10

STANDARD RATING

Vdc / μF	160		200		250		350		400		450	
	D*L	Ripple	D*L	Ripple	D*L	Ripple	D*L	Ripple	D*L	Ripple	D*L	Ripple
0.47	5*11	12	5*11	12	5*11	12	6.3*11	18	6.3*11	15	6.3*11	18
1	5*11	17	6.3*11	17	6.3*11	17	6.3*11	27	6.3*11	22	8*12	25
2.2	6.3*11	26	6.3*11	26	6.3*11 8*12	26 28	8*12	49	8*12	33	8*12	45
3.3	6.3*11	36	6.3*11	36	8*12	36	8*12	60	8*12	40	10*13	55
4.7	6.3*11 8*12	34 40	8*12	45	8*12	45	8*12	75	8*12	56	10*13	62
10	8*12	65	10*13	70	10*17	70	10*17	90	10*16	120	10*20	130
22	10*17	110	10*20	110	10*20	115	13*21	210	13*21	210	13*25	250
33	10*20	150	13*20	160	13*20	180	13*21	290	13*21	320	16*25	310
47	13*20	180	13*20	190	13*25	270	13*25	320	16*25	410	16*32	380
68	13*20	230	13*25	280	16*25	370	16*25	390	16*25	450	18*32	490
100	13*25 16*25	300 350	16*25	380	16*32	460	18*36	510	18*33	530		
150	16*32	435	16*36 18*36	500 550	16*36	560	22*30	630				
180	16*36	470	18*36	580	18*40	590						
220	16*36	500	18*36	615	18*40	655						
330	18*32	600	18*36	700								
470	18*36	900	18*42 22*35	1050 1150								

Maximum Ripple Current: Unit mA.rms,85℃ 120Hz. Size: D ϕ x L (mm)