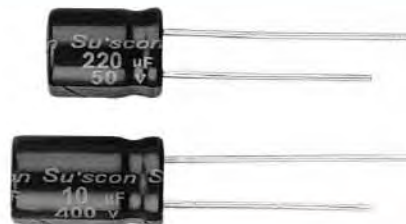


MK series

- One rank smaller case size than SK series.
- RoHS Compliance.
- SK小型化品。



MK

SPECIFICATIONS

Items 項目	Characteristics 特 性											
Capacitance Tolerance 靜電容量誤差	± 20% (120Hz, 20°C)											
Operating Temperature Range 適用溫度範圍	-40 ~ +105°C							-40 ~ +105°C			-25 ~ +105°C	
Rated Voltage Range 工作電壓範圍	6.3 ~ 100V							160 ~ 250V			350 ~ 450V	
Leakage Current 洩漏電流	I ≤ 0.01CV or 3(μA), (After 2 minutes application of working voltage)							I ≤ 0.03CV +20(μA), (After 3 minutes application of working voltage)				
Dissipation Factor 散逸因素 (tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C											
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160~250	350~450	
	tan δ (Max)	0.24	0.20	0.16	0.15	0.12	0.10	0.10	0.08	0.20	0.25	
	When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase. (20°C · 120Hz)											
Low Temperature Stability 低溫特性 Impedance Ratio (Max) 阻抗比率 (最大值)	Measurement Frequency: 120Hz.											
	Rated Voltage (V)	6.3	10	16	25	35~50		63~100		160~250	350~400	450
	Z (-25°C) / Z (20°C)	5	4	3	2	2		2		3	6	15
	Z (-40°C) / Z (20°C)	10	8	6	4	3		3		4	-	-
Load Life 負荷壽命	2000hours, with application of working voltage at 105°C											
	Capacitance Change	Within ± 20% of Initial Value										
	tan δ	200% or less of Initial Specified Value										
	Leakage Current	Initial Specified Value or less										
Shelf Life 放置壽命	1,000hours, no voltage applied, at 105°C 。 After Test: UR to be applied for 30 minutes, 24 to 48hours before measurement.											
	Capacitance Change	Within ± 20% of Initial Value										
	tan δ	200% or less of Initial Specified Value										
	Leakage Current	Initial Specified Value or less										
Standards 參照標準	JIS C 5101-4-1 and JIS C 5101-2											

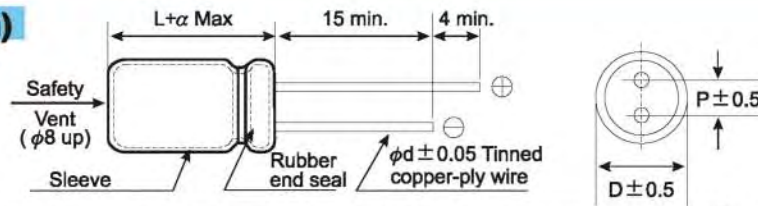
PERMISSIBLE RIPPLE CURRENT

Frequency Coefficient

WV(V)	Capacitance (μF)	Frequency (Hz)			
		50	120	1K	$\geq 10K$
6.3 ~ 100	< 100	0.75	1.00	1.57	2.00
	100 ~ 470	0.80	1.00	1.34	1.50
	> 470	0.85	1.00	1.10	1.15
160 ~ 450	0.1 ~ 220	0.80	1.00	1.40	1.60
	330 ~ 1000	0.90	1.00	1.10	1.15

MK series

DIMENSIONS (mm)



φ D	5	6.3	8	10	13	16	18	20	22	25
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0	12.5
φ d	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8	1.0

α	(L < 16) 1.0
	(L ≥ 16) 2.0

STANDARD RATINGS

DxL (mm); R.C.: (mA rms) at 105°C, 120Hz.

Cap (μF)	WV(V) (Code)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.1												5x11	1.5	5x11	5.4
0.22												5x11	3.5	5x11	8.0
0.33												5x11	5.2	5x11	10
0.47												5x11	8.5	5x11	12
1												5x11	15	5x11	17
2.2												5x11	24	5x11	25
3.3												5x11	30	5x11	31
4.7												5x11	36	5x11	37
10												5x11	59	5x11	68
22												5x11	73	5x11	85
33												5x11	97	6.3x11	116
47										5x11	109	6.3x11	144	6.3x11	133
68								5x11	110	6.3x11	121	6.3x11	169	8x12	182
100				5x11	116	5x11	129	5x11	151	6.3x11	169	8x12	218	8x12	242
220		5x11	156	5x11	182	6.3x11	218	6.3x11	242	8x12	290	10x13	363	10x16	399
330		6.3x11	182	6.3x11	242	6.3x11	266	8x12	327	10x13	411	10x16	484	10x20	605
470		6.3x11	218	6.3x11	290	8x12	374	10x13	448	10x16	545	10x20	641	13x21	762
1000		8x12	460	10x13	545	10x13	605	10x16	726	13x21	968	13x25	1137	16x26	1573
2200		10x16	762	10x16	847	13x21	847	13x25	1307	16x26	1513	16x32	1694	18x35	1984
3300		10x20	1004	13x21	1210	13x25	1404	16x26	1694	16x32	1815	18x35	2130	22x30	2347
4700		13x21	1307	13x25	1513	16x26	1815	16x32	1888	16x36	2142	22x30	2541	22x50	2952
6800		13x25	1621	16x26	1888	16x26	1925	16x36	2226	18x40	2420	22x50	3025	25x50	3376
10000		16x26	1984	16x32	2178	16x36	2323	18x40	2420	22x50	3194	25x50	3436		
15000		16x32	2190	16x36	2456	18x40	2662	22x50	3315	22x50	3739				
22000		18x35	2747	18x40	2904	22x40	3267	25x50	3920						
33000		22x40	3025	22x50	3872	25x50	4162								
47000		22x50	3340	25x50	4296										
68000		22x50	3703												

Cap (μF)	WV(V) (Code)	100 (2A)		160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.1		5x11	1.8	5x11	3.6	5x11	3.6								
0.22		5x11	4.1	5x11	5.5	5x11	5.5								
0.33		5x11	6.1	5x11	6.6	5x11	6.6								
0.47		5x11	8.6	5x11	7.9	5x11	8	5x11	8	5x11	8	6.3x11	10		
1		5x11	14	5x11	12	5x11	12	5x11	12	5x11	12	6.3x11	14		
2.2		5x11	24	5x11	18	5x11	18	6.3x11	17	6.3x11	24	8x12	30	8x12	24
3.3		5x11	33	5x11	21	6.3x11	33	6.3x11	24	8x12	33	8x12	36	10x16	30
4.7		5x11	36	5x11	25	6.3x11	35	8x12	40	8x12	42	8x12	48	10x16	36
10		5x11	61	8x12	48	8x12	66	10x13	85	10x16	73	10x16	73	10x20	63
22		6.3x11	109	10x13	102	10x16	121	10x20	123	13x21	123	13x25	157	13x25	119
33		8x12	145	10x16	139	10x20	157	10x25	157	13x21	193	16x26	193	16x32	145
47		8x14	157	10x20	169	13x21	223	13x21	218	16x26	242	16x26	230	16x36	182
68		10x13	218	13x21	290	13x25	290	16x26	315	16x32	332	16x32	278	18x35	218
100		10x16	278	13x25	363	16x26	377	16x26	387	18x35	436	18x35	363	18x40	230
220		13x21	460	16x32	484	16x36	593	18x35	598	22x50	641	25x50	545	25x50	290
330		13x25	641	18x35	678	18x40	804	20x40	847	25x50	940				
470		16x26	866	18x40	1022	22x40	1107	22x50	1198						
1000		18x35	1150	25x50	1621										
2200		22x50	2105												
3300		25x50	2493												

※ 13mm may be replaced by 12.5mm upon customer's request.