

KM Series

SAMXON®

+105°C, Pen Cap.(筆型電容)

FEATURES

1. 105°C high temperature and high voltage, load life : 2000 hours.
2. For slim size adaptor, LCD/LED-TV and LCD-Monitor power.



SPECIFICATIONS

Item	Performance Characteristics						
Operating Temperature Range	-25 to +105°C						
Rated Working Voltage Range	200 to 450V						
Nominal Capacitance Range	22 to 270 µF						
Capacitance Tolerance	±20% (120Hz, +20°C)						
Leakage Current	$I \leq 0.03CV + 40(\mu A)$ after 2 minutes application of rated working voltage at 20°C						
Dissipation Factor tan δ (120Hz, 20°C)	Working Voltage(V)	200	220	250	400	420	450
	tan δ (max.)	0.20	0.20	0.20	0.24	0.24	0.24
High Temperature Loading	After application of the rated voltage at 105°C for 2000 hours, the capacitors shall meet the following requirements. Leakage current : Not more than the specified value Cap. change : within ±20% of the initial value tan δ : Not more than 200% of the specified value						
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours, capacitors shall meet specified value for High Temperature Loading listed above.						
Low Temperature Characteristics	Impedance ratio max. at 120Hz						
	Working Voltage(V)	200	220	250	400	420	450
	Z-25°C / Z+20°C	4	4	6	8	8	15
Others	JIS C - 5101 (IEC 60384)						

CASE SIZE TABLE

	φD	10	12.5						
	F	5.0	5.0						
	φd	0.6	0.6						
	α	2.0							
	β	1.0							

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient					
Coefficient	Freq.(Hz)				
Rated Voltage(V)	50	120	300	1k	10k~
200~450	0.80	1.00	1.25	1.40	1.60

PART NUMBER SYSTEM(EXAMPLE:200V220 µF)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>E</u>	<u>K</u>	<u>M</u>	<u>2</u>	<u>2</u>	<u>7</u>	<u>M</u>	<u>2</u>	<u>D</u>	<u>I</u>	<u>5</u>	<u>0</u>	<u>R</u>	<u>R</u>
Series			Capacitance(220 μF)			Voltage(200V)			Diameter(12.5mm)			Case Length(50mm)	
E-CAP													

KM Series**SAMXON®****+105°C, Pen Cap.(筆型電容)****STANDARD RATINGS**

Voltage(Code)		200V(2D)		220V(2N)		250V(2E)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
82	826					10x45	390
100	107	10x40	410	10x45	420	10x50	430
						12.5x35	440
120	127	10x45	425	10x50	480	12.5x40	505
150	157	10x55	500	12.5x40	550	12.5x45	585
		12.5x35	495				
180	187	12.5x40	560	12.5x45	630	12.5x55	625
220	227	12.5x50	640	12.5x55	690		
270	277	12.5x60	695				

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case SizeΦDxL(mm)

Voltage(Code)		400V(2G)		420V(2M)		450V(2W)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
22	226					10x35	135
27	276					10x40	165
33	336	10x40	245	10x40	215	10x45	200
39	396	10x45	320	10x45	245	10x50	245
						12.5x35	255
47	476	10x50	360	10x55	295	10x60	300
		12.5x35	350	12.5x35	285	12.5x40	305
56	566	10x60	415	12.5x40	345	12.5x45	350
		12.5x40	400				
68	686	12.5x45	465	12.5x50	400	12.5x50	390
82	826	12.5x55	500	12.5x55	455	12.5x60	440
100	107	12.5x60	520				

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case SizeΦDxL(mm)