

# SKS

SERIES 7(9)mmL高, -40°C~+105°C

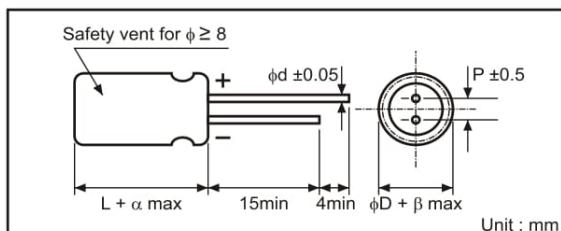
- This series is for communication equipments, switching power supply, industrial measuring instruments, automotive electric products, etc.



## ◆ SPECIFICATIONS

Item	Performance Characteristics																										
Operating temperature range	-40 to + 105°C																										
Rated Working Voltage Range	6.3 to 50V																										
Nominal Capacitance Range	0.1to 470μF																										
Capacitance Tolerance	±20(120Hz,+20°C)																										
Leakage Current	$I \leq 0.01CV$ or $3(\mu A)$ after 5 minutes application of rated working voltage at +20°C																										
Dissipation Factor tan δ(120Hz,+20°C)	Working Voltage(V)	6.3	10	16	25	35																					
	tan δ(max)	0.24	0.21	0.18	0.15	0.13																					
Low Temperature Characteristics	Impedance ratio max at 120Hz <table border="1"><tr><td>Working Voltage(V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z-25°C/Z+20°C</td><td>4</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z-40°C/Z+20°C</td><td>8</td><td>5</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table>						Working Voltage(V)	6.3	10	16	25	35	50	Z-25°C/Z+20°C	4	2	2	2	2	2	Z-40°C/Z+20°C	8	5	4	3	3	3
Working Voltage(V)	6.3	10	16	25	35	50																					
Z-25°C/Z+20°C	4	2	2	2	2	2																					
Z-40°C/Z+20°C	8	5	4	3	3	3																					
High Temperature Loading	Test conditions Duration : 1000 hours Ambient temp : + 105°C Applied voltage : Rated DC working voltage tan δ : $\leq 200\%$ of Initial specified value																										
Shelf Life	Test conditions Duration : 500 hours Ambient temp : + 105°C Applied voltage:(None) tan δ : $\leq 200\%$ of Initial specified value																										

## ◆ CASE SIZE TABLE



ΦD	4	5	6.3	8
P	1.5	2.0	2.5	3.5
Φd	0.45	0.45	0.45	0.45
α			1.5	
β			0.5	

## ◆ RIPPLE CURRENT MULTIPLIER

### (1) Frequency Coefficient

freq. (Hz) cap(μF)	50	120	300	1k	10k~
≤47	0.75	1.00	1.35	1.57	2.00
56~470	0.80	1.00	1.23	1.34	1.50

### (2) Temperature Coefficient

Tmperatu	~55	65	70	85	105
FACTOR	2.23	2.17	2.00	1.75	1.00

# SKS

SERIES 7(9)mmL高, -40°C~+105°C

## ◆ DIMENSIONS

Voltage	6.3V		10V		16V		25V			
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple		
10					4*7	25	4*7	28		
22	4*7	29	4*7	31	4*7	34	4*7	37		
							5*7	42		
33	4*7	35	4*7	38	4*7	46	5*7	53		
47	4*7	42	4*7	48	4*7	55	5*7	65		
					5*7	62	6.3*7	72		
68			5*7	56	5*7	70	6.3*7	78		
100	4*7	58	(5)6.3*7	(69)75	5*7	80	6.3*7	96		
	5*7	69			6.3*7	90	8*7(9)	118(130)		
					8*7	107				
220	5*7	79	6.3*7	110	6.3*7	128				
	6.3*7	95	8*7	140	8*7	165				
330	6.3*7	108	8*7(9)	158(176)						
	8*7(9)	120(145)								
470	8*7(9)	160(182)								

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

Case Size ΦD X L (mm)

Voltage	35V		50V					
Cap(μF)	Size	Ripple	Size	Ripple				
0.1			4*7	1.0				
0.22			4*7	2.3				
0.33			4*7	3.5				
0.47			4*7	5.0				
1			4*7	10				
2.2			4*7	19				
3.3			4*7	24				
4.7	4*7	24	4*7	29				
10	4*7	28	4*7	32				
	5*7	36	5*7	39				
22	5*7	45	6.3*7	60				
	6.3*7	57						
33	6.3*7	66	6.3*7	73				
	8*7	72	8*7	80				
47	6.3*7	75	8*7(9)	96(103)				
	8*7	88						
100	8*9	96						

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

Case Size ΦD X L (mm)