

SKF SERIES(5mmL高, +105°C)

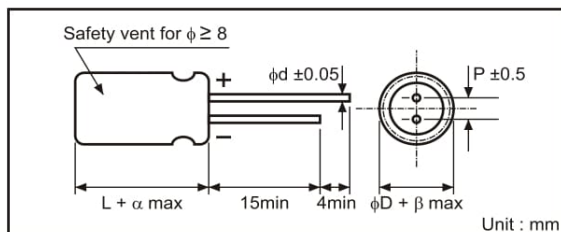
- Super miniature, 5mmL, high temperature, suit for use in electronic circuit of high density assembly for videoorder, remote controller, VCD etc.



◆ SPECIFICATIONS

Item	Performance Characteristics	
Operating temperature range	-40 to + 105°C	
Rated Working Voltage Range	4 to 50V	
Nominal Capacitance Range	0.1 to 470μF	
Capacitance Tolerance	±20(120Hz, +20°C)	
Leakage Current	I ≤ 0.01CV or 3(μA) after 5 minutes application of rated working voltage at +20°C	
Dissipation Factor tan δ(120Hz, +20°C)	Working Voltage(V)	4 6.3 10 16 25 35 50
	tan δ(max)	0.37 0.28 0.24 0.2 0.16 0.13 0.12
Low Temperature Characteristics	Impedance ratio max at 120Hz	
	Working Voltage(V)	4 6.3 10 16 25 35 50
	Z-25°C/Z+20°C	6 3 3 2 2 2 2
Z-40°C/Z+20°C	12 8 5 4 3 3 3	
High Temperature Loading	Test conditions	Post test requirements at +20°C
	Duration : 1000 hours Ambient temp : + 105°C Applied voltage : Rated DC working voltage	Leakage current : ≤ Initial specified value Cap . Change : ≤ ±20% of Initial measured value tan δ : ≤ 200% of Initial specified value
Shelf Life	Test conditions	Post test requirements at +20°C
	Duration : 500 hours Ambient temp : + 105°C Applied voltage:(None)	Leakage current : ≤ Initial specified value Cap . Change : ≤ ±20% of Initial measured value tan δ : ≤ 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

Temperatu	-55	60	70	85	105
FACTOR	2.23	2.17	2.00	1.75	1.00

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◆ DIMENSIONS

Voltage	4V		6.3V		10V		16V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
10							4*5	18
22	4*5	16	4*5	17	4*5	20	4*5	24
							5*5	30
33	4*5	20	4*5	21	4*5	28	4*5	29
							5*5	35
47	4*5	28	4*5	29	4*5	40	5*5	43
	5*5	36	5*5	36	5*5	46	6.3*5	50
100	5*5	48	5*5	48	5*5	57	6.3*5	75
	6.3*5	60	6.3*5	60	6.3*5	69	8*5	88
220	6.3*5	75	6.3*5	82	6.3*5	88	8*5	112
					8*5	105		
330	8*5	80	8*5	90	8*5	132		
470	8*5	88	8*5	100				

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

Case Size ΦD X L (mm)

Voltage	25V		35V		50V			
Cap(μF)	Size	Ripple	Size	Ripple				
0.1					4*5	1.0		
0.22					4*5	2.6		
0.33					4*5	3.2		
0.47					4*5	3.8		
1					4*5	6.2		
2.2			4*5	7	4*5	11		
3.3			4*5	11	4*5	14		
4.7	4*5	13	4*5	15	5*5	19		
	5*5	20	5*5	17				
10	4*5	17	5*5	22	5*5	24		
	5*5	23			6.3*5	30		
22	5*5	28	5*5	35	6.3*5	52		
	6.3*5	38	6.3*5	48				
33	6.3*5	48	8*5	62	8*5	68		
47	5*5	52	8*5	88				
	6.3*5	68						
100	8*5	100						

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

Case Size ΦD X L (mm)