

# SLF SERIES (5mmL高,Low Leakage Current 低漏電)

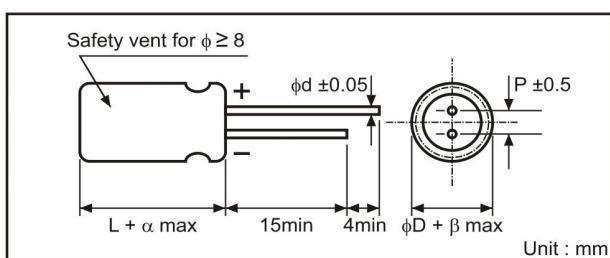
- 5mmL,low leakage current,accurate and reliability,suit for use in high stable circuits.



## ◆ SPECIFICATIONS

Item	Performance Characteristics							
Operating temperature range	-40 to +105°C							
Rated Working Voltage Range	4 to 50V							
Nominal Capacitance Range	0.1 to 100μF							
Capacitance Tolerance	±20(120Hz,+20°C)							
Leakage Current	$I \leq 0.002CV$ or $0.8(\mu A)$ whichever is greater measured after 2minutes application of with rated working voltage at +20 °C							
Dissipation Factor $\tan \delta(120Hz,+20°C)$	Working Voltage(V)	4	6.3	10	16	25	35	50
	$\tan \delta(\text{max})$	0.35	0.24	0.20	0.16	0.14	0.12	0.10
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	7	4	3	2	2	2	2
	Z-40°C/Z+20°C	15	10	8	6	4	3	3
High Temperature Loading	Test conditions Duration : 1000 hours Ambient temp : +105°C Applied vlotage:Rated DC working voltage							
	Post test requirements at +20 °C Leakage current : $\leq$ Initial specified value Cap . Change : $\leq \pm 20\%$ of Initial measured value $\tan \delta$ : $\leq 200\%$ of Initial specified value							
Shelf Life	Test conditions Duration : 500 hours Ambient temp : +105°C Applied vlotage:(None)							
	Post test requirements at +20 °C Leakage current : $\leq$ Initial specified value Cap . Change : $\leq \pm 20\%$ of Initial measured value $\tan \delta$ : $\leq 200\%$ 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
56~100	0.80	1.00	1.23	1.34	1.50

### (2) Temperature Coefficient

Tmperatu	-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
0.1								
0.22								
0.33								
0.47								
1								
2.2								
3.3								
4.7								
10							4*5	15
22			4*5	19	5*5	22	5*5	25
33	5*5	19	5*5	25	5*5	27	6.3*5	30
47	5*5	22	5*5	30	6.3*5	34	6.3*5	38
100	6.3*5	37	6.3*5	46	8*5	86	8*5	92

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

Case Size ΦD X L (mm)

Voltage	25V		35V		50V			
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple		
0.1					4*5	0.7		
0.22					4*5	1.3		
0.33					4*5	1.9		
0.47					4*5	2.7		
1					4*5	5.5		
2.2					4*5	9		
3.3					5*5	12		
4.7	4*5	11	4*5	12	5*5	13		
10	5*5	18	5*5	20	6.3*5	22		
22	6.3*5	28	6.3*5	31				
33	6.3*5	34						
47	6.3*5	46						
100	8*5	89						

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

Case Size ΦD X L (mm)