

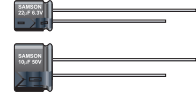
# SAMSON

## SLF Series

5mmL(高), Low Leakage Current(低漏電)

### FEATURES

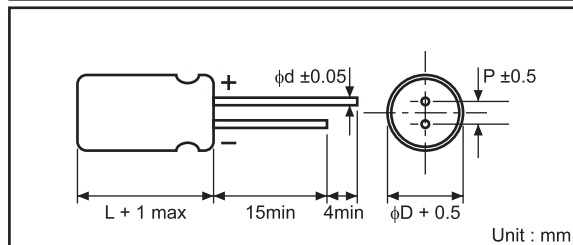
1. 5mmL, low leakage current, accurate and reliability, suit for use in high stable circuits.



### SPECIFICATIONS

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C								
Rated Working Voltage Range	4 to 50V								
Nominal Capacitance Range	0.1 to 100 $\mu$ F								
Capacitance Tolerance	$\pm$ 20% (120Hz, +20°C)								
Leakage Current	I $\leq$ 0.002CV or 0.4( $\mu$ A) whichever is greater measured after 2 minutes application of 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 $\delta$ (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				Post test requirements at +20°C				
	Duration : 1000 hours	Ambient temp. : +105°C			Applied voltage : Rated DC working voltage				Leakage current : $\leq$ 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 : $\leq$ Initial specified value
Others	JIS C - 5141 JIS C - 5102				Cap. change : within $\pm$ 20% of initial measured value (4V: within $\pm$ 30%)				
					tan $\delta$ : $\leq$ 200% of initial specified value				

### CASE SIZE TABLE



$\phi$ D	4	5	6.3						
P	1.5	2.0	2.5						
$\phi$ d	0.45								

### RIPPLE CURRENT MULTIPLIER

Temperature Coefficient					Frequency Coefficient							
Temperature(°C)	~ 55	60	70	85	105	Cap( $\mu$ F)	Freq.(Hz)	50	120	300	1K	10K ~
Factor	2.23	2.17	2.00	1.75	1.00	$\leq$ 47		0.75	1.00	1.35	1.57	2.00
						47 ~ 100		0.80	1.00	1.23	1.34	1.50

## SLF Series

### 5mmL(高), Low Leakage Current(低漏電)

DIMENSIONS									
Voltage (Code)		4V		6.3V		10V		16V	
Cap.( $\mu$ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
0.1	104								
0.22	224								
0.33	334								
0.47	474								
1	105								
2.2	225								
3.3	335								
4.7	475								
10	106							4 x 5	15
22	226			4 x 5	19	5 x 5	22	5 x 5	25
33	336	5 x 5	19	5 x 5	25	5 x 5	27	6.3 x 5	30
47	476	5 x 5	22	5 x 5	30	6.3 x 5	34	6.3 x 5	38
100	107	6.3 x 5	37	6.3 x 5	46				

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

Case Size  $\phi$ D x L(mm)

Voltage (Code)		25V		35V		50V			
Cap.( $\mu$ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current		
0.1	104					4 x 5	0.7		
0.22	224					4 x 5	1.3		
0.33	334					4 x 5	1.9		
0.47	474					4 x 5	2.7		
1	105					4 x 5	5.5		
2.2	225					4 x 5	9		
3.3	335					5 x 5	12		
4.7	475	4 x 5	11	4 x 5	12	5 x 5	13		
10	106	5 x 5	18	5 x 5	20	6.3 x 5	22		
22	226	6.3 x 5	28	6.3 x 5	31				
33	336	6.3 x 5	34						
47	476								
100	107								

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

Case Size  $\phi$ D x L(mm)