

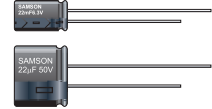
SAMSON

SLZ Series

7mmL(高), Low Leakage Current(低漏電)

FEATURES

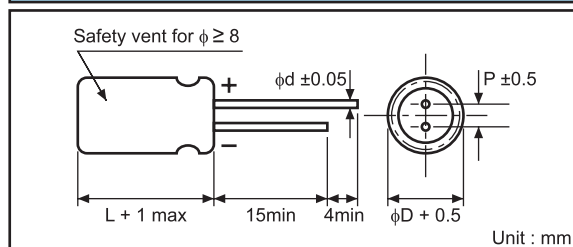
1. Extremely low and stable leakage current characteristics.
2. Close capacitance tolerance $\pm 20\%$ ($\pm 10\%$)



SPECIFICATIONS

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C								
Rated Working Voltage Range	6.3 to 50V								
Nominal Capacitance Range	0.1 to 220 μ 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 δ (120Hz, +20°C)	Working Voltage (V)	6.3	10	16	25	35	50		
	tan δ (max.)	0.24	0.20	0.16	0.14	0.12	0.10		
Low Temperature Characteristics	Impedance ratio max. at 120Hz								
	Working Voltage (V)	6.3	10	16	25	35	50		
	Z-25°C / Z+20°C	4	3	2	2	2	2		
	Z-40°C / Z+20°C	8	6	4	4	3	3		
High Temperature Loading	Test conditions				Post test requirements at +20°C				
	Duration	: 1000 hours			Leakage current : \leq Initial specified value				
	Ambient temp.	: +105°C			Cap. change : within $\pm 20\%$ of initial measured value				
	Applied voltage	: Rated DC working voltage			tan δ : $\leq 200\%$ of initial specified value				
Shelf Life	Test conditions				Post test requirements at +20°C				
	Duration	: 500 hours			Leakage current : \leq Initial specified value				
	Ambient temp.	: +105°C			Cap. change : within $\pm 20\%$ of initial measured value				
	Applied voltage	: (None)			tan δ : $\leq 200\%$ of initial specified value				
	*Pre-treatment for measurements Measurements shall be conducted after application of DC working voltage for 30 minutes								
Others	JIS C - 5141 JIS C - 5102								

CASE SIZE TABLE



ϕD	4	5	6.3	8					
P	1.5	2.0	2.5	3.5					
ϕd	0.45								

RIPPLE CURRENT MULTIPLIER

Temperature Coefficient						Frequency Coefficient						
Temperature(°C)	~ 55	60	70	85	105	Cap(μ F)	Freq.(Hz)	50	120	300	1K	10K ~
Factor	2.23	2.17	2.00	1.75	1.00			≤ 47	0.75	1.00	1.35	1.57
						47 ~ 220	0.80	1.00	1.23	1.34	1.50	

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DIMENSIONS									
Voltage (Code)		6.3V		10V		16V		25V	
Cap.(μ 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 7	19	5 x 7	22
22	226	4 x 7	22	5 x 7	25	5 x 7	29	6.3 x 7	34
33	336	5 x 7	28	5 x 7	31	6.3 x 7	35	6.3 x 7	42
47	476	5 x 7	33	6.3 x 7	39	6.3 x 7	45	8 x 7	52
100	107	6.3 x 7	51	8 x 7	64	8 x 7	71		
220	227	8 x 7	86						

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

Case Size ϕ D x L(mm)

Voltage (Code)		35V		50V					
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current				
0.1	104			4 x 7	7				
0.22	224			4 x 7	1.6				
0.33	334			4 x 7	2.3				
0.47	474			4 x 7	3.3				
1	105			4 x 7	6.6				
2.2	225			4 x 7	13				
3.3	335			4 x 7	16				
4.7	475	4 x 7	16	5 x 7	19				
10	106	5 x 7	24	6.3 x 7	29				
22	226	6.3 x 7	38	8 x 7	43				
33	336	8 x 7	48						
47	476								
100	107								
220	227								

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

Case Size ϕ D x L(mm)