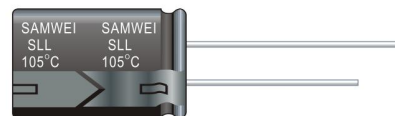


SLL SERIES (105°C Low Leakage Current低漏電)

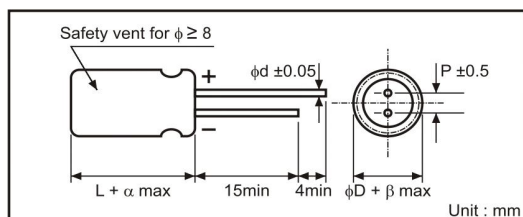
- Extremely low and stable leakage current characteristics.
- Close capacitance tolerance $\pm 20\%$ ($\pm 10\%$).



◆ SPECIFICATIONS

Item	Performance Characteristics																																			
Operating temperature range	-40 to +105℃																																			
Rated Working Voltage Range	6.3 to 100V																																			
Nominal Capacitance Range	0.1 to 3300μF																																			
Capacitance Tolerance	±20(120Hz,+20℃)																																			
Leakage Current	I ≤ 0.002CV or 0.8(μA) whichever is greater measured after 2minutes application of with rated working voltage at +20℃																																			
Dissipation Factor tan δ(120Hz,+20℃)	<table><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><td>63</td><td>100</td></tr><tr><td>tan δ(max)</td><td>0.28</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.08</td></tr></table> For capacitance value > 1000μF,add 0.02per another 1000μF									Working Voltage(V)	6.3	10	16	25	35	50	63	100	tan δ(max)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08									
Working Voltage(V)	6.3	10	16	25	35	50	63	100																												
tan δ(max)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08																												
Low Temperature Characteristics	Impedance ratio max at 120Hz <table><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><td>63</td><td>100</td></tr><tr><td>Z-25℃/Z+20℃</td><td>5</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z-40℃/Z+20℃</td><td>12</td><td>10</td><td>8</td><td>5</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table> For capacitance value > 1000μF,Add 0.5per another 1000μF for Z-25℃/Z+20℃ Add 1.0per another 1000μF for Z-40℃/Z+20℃									Working Voltage(V)	6.3	10	16	25	35	50	63	100	Z-25℃/Z+20℃	5	4	3	2	2	2	2	2	Z-40℃/Z+20℃	12	10	8	5	4	3	3	3
Working Voltage(V)	6.3	10	16	25	35	50	63	100																												
Z-25℃/Z+20℃	5	4	3	2	2	2	2	2																												
Z-40℃/Z+20℃	12	10	8	5	4	3	3	3																												
High Temperature Loading	Test conditions Duration : 1000 hours Ambient temp : +105℃ Applied vlotage:Rated DC working voltage				Post test requirements at +20℃ Leakage current : ≤ Initial specified value Cap . Change : ≤ ±20%of Initial measured value tan δ : ≤ 200% of Initial specified value																															
Shelf Life	Test conditions Duration : 500 hours Ambient temp : +105℃ Applied vlotage:(None)				Post test requirements at +20℃ Leakage current : ≤ Initial specified value Cap . Change : ≤ ±20%of Initial measured value tan δ : ≤ 200% of Initial specified value																															

◆ CASE SIZE TABLE



ΦD	5	6.3	8	10	12.5	16
P	2.0	2.5	3.5	5.0	5.0	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8
α	(L < 20)1.5		(L ≥ 20)2.0			
β	(D < 20)0.5		(D ≥ 20)1.0			

◆ RIPPLE CURRENT MULTIPLIER

freq. (Hz)	50	120	300	1k	10k~
cap(μf)					
≤ 47	0.75	1.00	1.35	1.57	2.00
56~470	0.80	1.00	1.23	1.34	1.50
680~3300	0.80	1.00	1.1	1.13	1.50

(2) Tmperature Coefficient

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

SLL SERIES (105°C Low Leakage Current低漏電)

◆ DIMENSIONS

Voltage	6.3V		10V		16V		25V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7							5*11	18
10					5*11	24	5*11	30
22	5*11	21	5*11	33	5*11	45	5*11	48
33	5*11	33	5*11	48	5*11	54	5*11	57
47	5*11	45	5*11	57	5*11	66	5*11	69
100	5*11	78	5*11	87	6.3*11	105	6.3*11	111
220	6.3*11	129	6.3*11	138	8*12	180	8*12	192
330	6.3*11	159	8*12	198	8*12	216	10*12.5	252
470	8*12	216	8*12	234	10*12.5	282	10*16	324
1000	10*12.5	342	10*16	378	10*20	474	12.5*20	570
2200	12.5*20	630	12.5*20	660				
3300	12.5*20	750						

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

Case Size ΦD X L (mm)

Voltage	35V		50V		63V		100V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1			5*11	10			5*11	10
2.2			5*11	14			5*11	18
3.3			5*11	21			5*11	24
4.7	5*11	21	5*11	24	5*11	27	5*11	27
10	5*11	33	5*11	39	5*11	42	6.3*11	45
22	5*11	51	6.3*11	57	6.3*11	69	8*12	78
33	5*11	63	6.3*11	75	8*12	84	10*12.5	102
47	6.3*11	84	6.3*11	90	8*12	114	10*16	138
100	8*12	138	8*12	150	10*12.5	180	12.5*20	240
220	10*12.5	222	10*16	264	10*20	294		
330	10*16	294	10*20	398	12.5*20	408		
470	10*20	384	12.5*20	456				

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

Case Size ΦD X L (mm)