

SLP SERIES Lug/Snap-in Terminal Type (插入/自立型), Standard(標準品)

- Smaller low profile sizes than ordinary capacitors.
- Terminal spacing fixed at 10mm for PC board plug in.



◆ SPECIFICATIONS

Item	Performance Characteristics																									
Operating temperature range	-40 to +85°C	-25 to +85°C																								
Rated Working Voltage Range	10 to 100V	160 to 450V																								
Nominal Capacitance Range	56 to 82000µF																									
Capacitance Tolerance	±20(120Hz, +20°C)																									
Leakage Current	$I \leq 0.01CV$ or $3(\mu A)$ after 2 minutes whichever is greater measured with rated working voltage applied at +20 °C	$I = 3\sqrt{CV} + 40(\mu A)$ after 2 minutes application of rated working voltage at +20 °C																								
Dissipation Factor tan δ(120Hz, +20°C)	<table border="1"> <tr> <td>Working Voltage(V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>tan δ(max)</td> <td>0.55</td> <td>0.5</td> <td>0.45</td> <td>0.4</td> <td>0.35</td> <td>0.3</td> <td>0.25</td> <td>0.2</td> </tr> </table> <table border="1"> <tr> <td>Working Voltage(V)</td> <td>160~250</td> <td>315~450</td> </tr> <tr> <td>tan δ(max)</td> <td>0.15</td> <td>0.25</td> </tr> </table> <p>For capacitance value > 33000µF, add following calculated value: ((rated cap)-33000)/1000µF</p>		Working Voltage(V)	10	16	25	35	50	63	80	100	tan δ(max)	0.55	0.5	0.45	0.4	0.35	0.3	0.25	0.2	Working Voltage(V)	160~250	315~450	tan δ(max)	0.15	0.25
Working Voltage(V)	10	16	25	35	50	63	80	100																		
tan δ(max)	0.55	0.5	0.45	0.4	0.35	0.3	0.25	0.2																		
Working Voltage(V)	160~250	315~450																								
tan δ(max)	0.15	0.25																								
Low Temperature Characteristics	Impedance ratio max at 120Hz <table border="1"> <tr> <td>Working Voltage(V)</td> <td>10~100</td> <td>160~250</td> <td>315~385</td> <td>400~450</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>4</td> <td>3</td> <td>5</td> <td>8</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>15</td> <td>12</td> <td>~</td> <td>~</td> </tr> </table>		Working Voltage(V)	10~100	160~250	315~385	400~450	Z-25°C/Z+20°C	4	3	5	8	Z-40°C/Z+20°C	15	12	~	~									
Working Voltage(V)	10~100	160~250	315~385	400~450																						
Z-25°C/Z+20°C	4	3	5	8																						
Z-40°C/Z+20°C	15	12	~	~																						
High Temperature Loading	Test conditions The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2000h.	Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap.Change : within ±20% of Initial measured value tan δ : ≤ 200% of Initial specified value																								
Shelf Life	At 85°C no voltage applied after 1000hours the capacitors shall meet the following limits. Leakage current : ≤ 200% of Initial specified value Cap. Change : within ±20% of Initial measured value tan δ : ≤ 150% of Initial specified value																									

◆ RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

1) maximum rms ripple current at 120Hz, 85°C are given in the table.

2) temperature multiplying factor.

where capacitors are operated at temperature other than 85°C, the maximum ripple current must be the figure shown in the table below

Rated voltage \ freq. (Hz)	60	120	1k	10~50k
25~100V	0.9	1	1.15	1.25
160~250V	0.8	1	1.15	1.47
315~450V	0.8	1	1.15	1.47

Temperature Coefficient

3) frequency multiplying factor

if capacitors are used to filter circuits at a frequency other than 120Hz, the maximum ripple current must be multiplied by the figure shown in the table below

Temperature	-55	60	70	85	
FACTOR	1.37	1.25	1.18	1	

SLP SERIES Lug/Snap-in Terminal Type (插入/自立型), Standard(標準品)

◆ DIMENSIONS

Voltage Cap(μF)	10V		16V		25V		35V	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
2700							20*25	1.76
3300							20*30	2.14
3900							20*30	2.28
							22*25	2.22
4700					20*25	2.18	20*35	2.46
							22*30	2.46
							25*25	2.43
5600					20*30	2.33	22*35	2.79
					22*25	2.31	25*30	2.75
6800			20*25	2.33	20*35	2.56	22*40	2.89
							25*30	2.89
					22*30	2.56	30*25	3.09
8200			20*30	2.56	20*40	2.91	22*45	3.47
					22*35	2.81	25*35	3.33
			22*35	2.56	22*25	2.78	30*30	3.29
10000	20*25	2.22	20*35	2.85	22*35	3.18	22*50	3.59
							25*40	3.59
			22*30	2.81	25*30	3.16	30*30	3.61
12000	20*30	2.44	20*40	3.20	22*40	3.53	25*45	4.01
			22*30	3.13	25*35	3.48	30*35	4.01
	22*25	2.41	25*25	2.96	30*25	3.53	35*30	4.02
15000	20*35	2.90	22*35	3.69	22*50	4.08	30*40	4.80
	22*30	2.88	25*30	3.64	25*40	4.00		
	25*25	2.88	30*25	3.73	30*30	4.00	35*35	4.08
18000	20*40	3.31	22*40	3.98	25*45	4.68	30*45	5.18
	22*35	3.22	25*35	3.98	30*35	4.66		
	25*30	3.08	35*35	3.88	35*30	4.68	35*40	5.71
22000	22*40	3.79	22*50	4.52	30*40	5.19	35*45	6.38
	25*30	3.66	25*40	4.44				
	35*20	3.53	30*30	4.38	35*35	5.20		
27000	22*45	4.04	25*45	4.98	30*45	6.02	35*50	6.9
	25*35	4.04	30*35	4.82				
	30*30	3.99	35*30	4.82	35*40	6.02		
33000	22*50	4.58	25*50	5.49	35*45	6.75		
	25*40	4.56	30*40	5.38				
	30*30	4.58	35*35	5.33				
39000	25*45	5.29	30*45	6.11	35*50	7.56		
	30*35	5.21						
	35*30	5.50	35*35	6.01				
47000	25*50	5.78	30*50	6.80				
	30*40	5.55						
	35*35	5.55	35*40	6.80				
56000	30*45	6.59	35*45	7.62				
	35*35	6.4						
68000	30*50	7.5						
	35*40	7.48						
82000	35*50	8.5						

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size ΦD X L (mm)

SLP SERIES Lug/Snap-in Terminal Type (插入/自立型), Standard(標準品)

◆ DIMENSIONS

Voltage	50V		63V		80V		100V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
680							20*25	1.66
820							20*30	1.85
							22*25	1.86
1000					20*25	1.56	20*35	2.02
							22*30	2.02
1200					20*30	1.8	20*40	2.12
							22*30	2.12
1500					22*25	1.77	25*25	2.10
			20*25	1.69	20*35	2.10	22*35	2.45
1800					22*30	2.01	25*30	2.43
	20*25	1.70	20*30	2.04	20*40	2.35	22*40	2.77
2200					22*30	2.25	25*35	2.77
			22*25	1.90	25*25	2.26	30*25	2.65
	20*30	2.07	20*35	2.40	22*40	2.53	22*45	3.12
2700			22*30	2.35	25*30	2.53	25*40	3.20
	22*25	1.93	25*25	2.30	30*25	2.50	30*30	3.10
3300	20*35	2.21	20*40	2.52	22*45	2.93	25*45	3.61
			22*35	2.40	25*35	2.93	30*35	3.60
3900			25*30	2.39	30*30	2.91	35*30	3.71
			20*40	2.41	22*40	2.69	22*50	3.25
			22*40	2.69	25*40	3.23	25*50	4.06
4700			25*30	2.69	30*30	3.23	30*40	4.05
			25*25	2.38	30*25	2.78	30*30	3.23
5600			22*35	2.72	22*45	3.10	25*45	3.62
			25*35	3.09			30*45	4.60
6800			25*30	2.68	30*30	3.09	30*35	3.62
			30*30	3.09	30*35	3.62	35*35	4.50
			22*40	3.01	22*50	3.49	25*50	4.28
8200			25*40	3.37	30*40	4.15		
			30*25	3.01	30*30	3.37	35*30	4.10
10000			30*30	3.37	35*30	4.10	35*40	5.12
			22*35	3.43	25*45	3.80	30*45	4.55
12000			30*35	3.37	30*35	3.81		
			30*30	3.43	35*30	3.75	35*35	4.51
15000			22*50	3.94	25*50	4.41	30*50	5.18
			25*40	3.87	30*40	4.41		
18000			30*35	3.87	35*35	4.33	35*40	5.14
			25*45	4.37	30*45	4.90		
10000			30*35	4.42			35*45	5.83
			35*30	4.41	35*35	4.80		
12000			30*40	5.02	30*50	5.49		
			35*35	4.92	35*40	5.47		
15000			30*50	5.60				
			35*40	5.60	35*50	6.30		
15000								
18000								

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size ΦD X L (mm)

SLP SERIES Lug/Snap-in Terminal Type (插入/自立型), Standard(標準品)

◆ DIMENSIONS

Voltage	160V		180V		200V		220V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
180							20*25	1.09
220					20*25	1.13	20*30	1.15
							20*25	1.09
270	20*25	1.22	20*25	1.23			20*30	1.38
							22*25	1.31
330	20*30	1.48	20*30	1.48	20*30	1.49	20*35	1.51
							22*30	1.58
			22*25	1.42	22*25	1.44	25*25	1.49
390	20*30	1.55	20*30	1.58	20*35	1.66	20*40	1.73
					22*30	1.65	22*35	1.69
	22*25	1.55	22*30	1.61	25*25	1.63	25*30	1.71
470	20*35	1.81	20*35	1.82	20*40	1.93	22*40	1.99
	22*30	1.77	22*30	1.80	22*35	1.88	25*30	1.95
	25*25	1.81	25*25	1.80	25*30	1.86	30*25	1.89
560	20*40	2.04	20*40	2.04	22*40	2.08	22*45	2.28
	22*35	2.05	22*35	2.09	25*30	2.05	25*35	2.22
	25*30	2.04	25*30	2.05	30*25	2.05	30*30	2.19
680	22*40	2.24	22*40	2.36	22*45	2.36	22*50	2.46
	25*30	2.22	25*35	2.34	25*35	2.36	25*40	2.40
	30*25	2.22	30*25	2.27	30*30	2.36	30*30	2.39
820	22*45	2.55	22*45	2.72	22*50	2.68	25*45	2.81
	25*35	2.52	25*35	2.58	25*40	2.66	30*35	2.70
	30*30	2.51	30*30	2.56	30*30	2.62	35*30	2.62
1000	22*50	2.88	25*45	2.91	25*45	3.12	25*50	3.13
	25*40	2.86			30*35	3.00	30*40	3.08
	30*30	2.82	30*35	2.95	35*30	2.96	35*35	3.05
1200	25*45	3.27	25*50	3.46	25*50	3.44	30*45	3.60
	30*35	3.25	30*40	3.48	30*40	3.44		
	35*30	3.24	35*30	3.32	35*35	3.40	35*40	3.51
1500	30*40	3.77	30*45	3.90	30*50	3.93	35*45	3.92
	35*35	3.75	35*35	3.83	35*40	3.87		
1800	30*45	4.10	30*50	4.33	35*45	4.37		
	35*35	4.08	35*40	4.32				
2200	35*45	4.72	35*45	4.60	35*50	5.00		
2700	35*50	5.30	35*50	5.05				

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size ΦD X L (mm)

SLP SERIES Lug/Snap-in Terminal Type (插入/自立型), Standard(標準品)

◆ DIMENSIONS

Voltage	250V		310V		350V		385V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
68							20*25	0.6
82							22*25	0.67
							20*30	0.70
100							20*30	0.80
							22*30	0.82
120					20*30	0.91	20*35	0.89
							22*30	0.91
					22*25	0.99	25*25	0.95
150			20*30	0.95	20*35	1.05	20*40	1.05
					22*30	1.14	22*35	1.04
					25*25	1.16	25*40	1.08
180	20*25	1.44	20*35	1.08	20*40	1.18	22*40	1.18
			22*30	1.23	22*35	1.20	25*35	1.20
			25*25	1.31	25*30	1.31	30*25	1.28
220	20*30	1.20	20*40	1.23	22*40	1.40	22*45	1.33
			22*35	1.34	25*35	1.46	25*35	1.44
	22*25	1.18	25*30	1.40	30*25	1.47	30*30	1.40
270	20*30	1.35	22*40	1.60	22*45	1.62	25*40	1.56
					25*35	1.65		
	22*30	1.43	25*30	1.62	30*30	1.71	30*35	1.62
330	20*35	1.60	22*45	1.82	22*50	1.78	25*50	1.80
	22*30	1.58	25*35	1.85	25*40	1.88	30*40	1.85
	25*25	1.53	30*30	1.89	30*35	1.93	35*30	1.85
390	20*40	1.83	22*50	1.97	25*45	2.04	30*40	2.04
	22*35	1.79	25*40	2.01	30*35	2.12		
	25*30	1.79	30*30	2.05	35*30	2.19	35*35	2.06
470	22*40	2.05	25*45	2.20	30*40	2.41	30*50	2.27
	25*35	2.05	30*35	2.27				
	30*25	1.94	35*30	2.25	35*35	2.43	35*40	2.30
560	22*45	2.36	30*40	2.50	30*45	2.60	35*45	2.57
	25*35	2.24						
	30*30	2.24	35*35	2.56	35*35	2.62		
680	25*40	2.54	30*45	2.67	35*40	3.00	35*50	2.80
	30*35	2.58	35*40	2.90				
820	25*50	2.87	30*50	3.12	35*50	3.30		
	30*35	2.84						
	35*30	2.82	35*45	3.29				
1000	30*45	3.39	35*50	3.40				
	35*35	3.31						
1200	30*50	3.80						
	35*40	3.66						
1500	35*45	4.12						
1800	35*50	4.31						

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size ΦD X L (mm)

SLP SERIES Lug/Snap-in Terminal Type (插入/自立型), Standard(標準品)

◆ DIMENSIONS

Voltage	400V		420V		450V			
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple		
56					20*25	0.58		
68	20*25	0.71	20*25	0.65	20*30	0.67		
					22*25	0.68		
82	20*30	0.78	20*30	0.73	20*35	0.76		
	22*25	0.80	22*25	0.75	22*30	0.82		
100	20*30	0.90	20*35	0.85	20*35	0.84		
			22*30	0.87	22*35	0.90		
	22*30	0.94	25*25	0.92	25*25	0.92		
120	20*35	1.02	20*35	0.99	20*40	0.94		
	22*30	1.04	22*30	1.10	22*35	1.02		
	25*25	1.08	25*25	1.03	25*30	1.04		
					30*25	1.07		
150	20*40	1.16	20*45	1.15	22*40	1.12		
	22*35	1.18	22*35	1.19	25*35	1.19		
	25*30	1.21	25*30	1.19	30*30	1.23		
			30*25	1.14				
180	22*40	1.34	22*45	1.36	22*50	1.26		
	25*35	1.37	25*35	1.37	25*40	1.33		
	30*25	1.45	30*25	1.35	30*30	1.38		
220	22*45	1.50	22*50	1.69	25*45	1.51		
	25*35	1.56	25*40	1.58	30*35	1.56		
	30*30	1.58	30*30	1.56	35*30	1.58		
270	25*40	1.70	25*45	1.83	25*50	1.65		
			30*35	1.72	30*40	1.80		
	30*35	1.73	35*30	1.76	35*35	1.81		
330	25*50	1.90	25*50	2.18	30*45	2.02		
	30*40	1.95	30*40	1.98				
	35*30	1.95	35*35	2.04	35*35	2.05		
390	30*40	2.15	30*45	2.34	30*50	2.24		
	35*35	2.17	35*35	2.26	35*40	2.27		
470	30*50	2.39	30*50	2.67	35*45	2.55		
	35*40	2.42	35*40	2.60				
560	35*45	2.71	35*45	2.93				
680	35*50	2.95						

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size ΦD X L (mm)