



# ALUMINUM ELECTROLYTIC CAPACITORS

## SNP Non-polar (+105°C 无极性) Series

- Features: 105°C 2000 hours  
特点: 105°C 2000小时 无极性.
- Recommended Application: Non-polar miniature type for used in reversing polarity DC voltage circuits.  
适用于转换链接电路中。
- Corresponding product to RoHS (2011/65/EU)  
符合RoHS要求的相应产品(2011/65/EU)

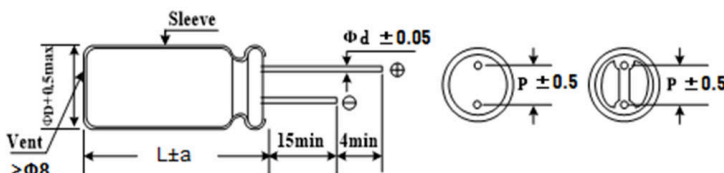


### Specifications(技术性能)

Item 项目	Characteristics 性能	
Operating Temperature Range 温度范围	-40 ~ +105°C	-25 ~ +105°C
Rated Voltage Range 电压范围	6.3 ~ 100VDC	160 ~ 250VDC
Rated Capacitance Range 容量范围	0.22 ~ 22000µF	0.47 ~ 100µF
Capacitance Tolerance 容量偏差	± 20 % at 120Hz , 20°C	
Leakage Current (MAX) (20°C) 泄漏电流	I=0.03CV+ 3µA	
	After rated voltage applied for 2 minutes 2分钟测试	
Dissipation Factor 损耗角 (tanδ) (120Hz ,20°C)	WV(V)	6.3 10 16 25 35 50 63~100 160~250
	tan δ	0.24 0.20 0.17 0.15 0.14 0.12 0.10 0.20
Capacitance > 1000µF, add 0.02per another 1000µF. 容量大于1000uF每增加1000uF损耗角增加0.02.		
Low Temperature Stability Impedance Ratio (MAX) 低温阻抗比	WV Z(120Hz)	6.3 10 16 25 35 50 63~100 160~250
	Z-25°C / Z+20°C	4 3 2 2 2 2 2 6
	Z-40°C / Z+20°C	10 8 6 5 4 3 3 -
High Temperature Load Life 高温负载耐久性	After applying rated voltage for 2000 hours at 105°C. (The polarity shall be reversed every 250 hrs.) 在105°C环境下连续施加额定电压 2000小时后(每250小时极性互换), 符合以下要求.	
	Capacitance Change 容量	Within ± 20 % of initial value 在初始值的±20%
	Dissipation Factor 损耗角	Not more than 200% of the specified value 不超过标准值的200%
	Leakage Current 泄漏电流	Initial specified value or less 标准值内
High Temperature Shelf Life 高温贮存	After leaving capacitors under no load at 105°C for 1000 hours.the capacitors shall meet the same requirement as Endurance. 在105°C环境下不加负载放置1000小时后电性能同耐久性要求.	

### Diagram of Dimensions

外形尺寸



Unit: mm

ΦD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8
a	(L < 20) 1.5		(L ≥ 20) 2.0				

### Multiplier for Ripple Current

(1) Frequency Coefficient (频率系数)

Freq. (Hz) Cap(µf)	120	1k	10k
≤ 47	1.00	1.57	2.00
56~470	1.00	1.34	1.50
≥ 560	1.00	1.13	1.15

(2) Temperature Coefficient(温度系数)

Temperature (°C)	-40	60	85	105
Factor	1.65	1.50	1.30	1.00



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■ DIMENSIONS Rated Capacitors, Voltage(Surge), Case Size, Imp, Ripple Current .(容量、电压(浪涌电压)、尺寸、纹波电流.

Cap (μF)	Rated (Surge) Voltage (V)																
	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (79)		100 (125)		
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
0.22												5x11	5				
0.47												5x11	11	5x11	11	5x11	14
1												5x11	17	5x11	17	5x11	21
2.2												5x11	25	5x11	25	6.3x12	34
3.3												6.3x12	31	6.3x12	37	8x12	49
4.7									5x11	34	5x11	34	5x11	37	8x12	58	
											6.3x12	41	6.3x12	44			
10					6.3x12	45	5x11	42	6.3x12	54	6.3x12	56	8x12	74	8x12	80	
							6.3x12	50			8x12	70			10x13	100	
22			5x11	57	5x11	59	6.3x12	69	8x12	94	6.3x12	75	8x11	95	13x20	180	
					6.3x12	69	8x12	86			8x12	97	10x17	130			
											10x13	115					
33	5x11	63	6.3x12	77	8x12	98	8x12	105	10x13	125	8x12	110	8x12	115	13x20	220	
											10x16	150	10x20	175			
47	6.3x12	84	6.3x12	93	8x12	115	10x13	140	10x17	165	8x12	130	13x20	230	13x25	285	
											10x20	190					
100	8x12	140	8x12	193	8x12	140	10x20	240	13x20	285	13x20	310	16x25	410	16x32	510	
					10x13	175											
					10x16	205											
220	10x13	235	10x17	255	10x20	330	13x20	390	16x25	520	16x25	570	16x32	660			
330	10x17	310	10x20	380	13x20	445	16x25	580	16x25	630	16x36	790					
470	10x20	400	13x20	470	13x25	570	16x25	690	16x32	820							
1000	13x25	690	16x25	885	16x32	1020											
2200	16x32	1250	16x36	1450													

☆ Size: ΦDx L (mm) ☆ Ripple Current: (mA/rms), 105°C, 120Hz

Cap (μF)	Rated (Surge) Voltage (V)					
	160(200)		200(250)		250(300)	
	Size	Ripple	Size	Ripple	Size	Ripple
0.47	6.3x12	14				
1	6.3x12	21	6.3x12	21	8x12	25
2.2	8x12	34	8x12	34	10x13	38
3.3	10x13	49	10x13	49	10x13	49
4.7	10x13	58	10x17	62	10x17	66
10	10x17	80	13x20	100	13x20	100
22	13x25	180	13x25	180	16x26	200
33	16x26	220	16x26	220	16x32	250
47	16x26	285	16x32	315	16x36	330
100	18x36	510				

☆ Size: ΦDx L (mm) ☆ Ripple Current: (mA/rms), 105°C, 120Hz