

LP

Series Snap-in Type 85°C
牛角型85°C

适用于多种电产品滤波回路中,例如:电视机、电源供应器、大功率音箱等。

★ Suitable for filter of consumer electronic equipment, Such as high power stereos, TV, power etc.

★ Load Life 2000Hrs at 85°C

主要技术性能 Specifications

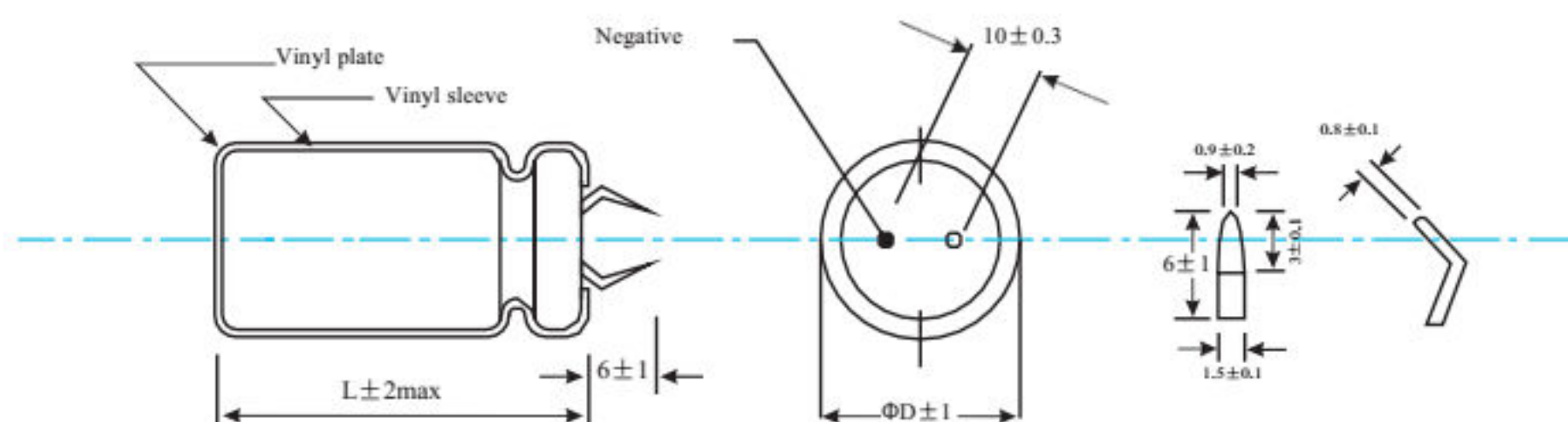
项目 Item	特性 Performance Characteristics									
使用温度范围 Operating temperature rang	-40 ~ 85°C	-25 ~ 85°C								
额定电压范围 Rated voltage range	10 ~ 100V _{DC}	160 ~ 450V _{DC}								
标准电容量范围 Nominal capacitance range	470 ~ 68000 μF	47 ~ 2700 μF								
标准电容量允许偏差 Capacitance tolerance	±20% (120Hz, +20°C)									
漏电流 Leakage current	I ≤ 0.02CV (A)									
	5 分钟后测试取较大者 After 5 minutes applying the DC working voltage									
损耗角正切值 (tan. δ) Dissipation factor max. D.F.) at 20°C, 120Hz	μF V _{DC}	10 ~ 16	25 ~ 35	50 ~ 63	80 ~ 100	160 ~ 250	315 ~ 450			
	33 ~ 390					15	20			
	470 ~ 3900	25	20	20	20	15	20			
	4700 ~ 8200	35	30	30	25					
	10000 ~ 22000	40	35	30						
	27000 ~ 47000	45	40	35						
低温特性 Low Temperature Characteristics (Impedance ratio at 120Hz)	Working Voltage (V _{DC})	10	16	25	35	50	63	100 ~ 160	200 ~ 250	400 ~ 450
	Z-25°C/+20°C	5	5	4	4	4	4	4	4	8
	Z-40°C/+20°C	15	15	15	12	12	12	12		
负荷寿命 Load life	+85°C下施加额定工作电压2000Hrs 后, 特性变化率如下: After applying rated voltage for 2000Hrs at 85°C ,									
	Capacitance Change	≤ ±20%初始测量值以内 The initial value								
	D.F. (%)Change	≤ 200%初始规定值 The initial specified value								
	Leakage Current Change	≤ 初始规定值 The initial specified value								
放置寿命 Shelf life	+85°C下放置1000Hrs 后, 特性变化率如下: After 1000Hrs at 85°C ,									
	Capacitance Change	≤ ±20%初始测量值以内 The initial value								
	D.F. (%)Change	≤ 200%初始规定值 The initial specified value								
	Leakage Current Change	≤ 初始规定值 The initial specified value								

纹波与频率系数对照表

Multiplier of ripple current vs frequency

CAP (F) \ Hz		50 (60)	120	1K	10K	50~100K
Coefficient	10 < CAP ≤ 100	0.8	1.00	1.36	1.48	1.53
	100 < CAP ≤ 1000	0.8	1.00	1.25	1.35	1.38
	1000 < CAP	0.8	1.00	1.17	1.25	1.28

规格尺寸图 Dimensions: mm



尺寸与纹波对照表 *Ripple current vs size*

øD x L(mm)

WV (V)	10 (3)								16 (0)							
	22		25		30		35		22		25		30		35	
	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.
4700	22X21	2.40							22X21	2.40						
6800	22X26	2.84							22X26	2.84						
8200	22X26	2.90							22X26	2.90						
10000	22X31	3.06	25X26	3.06					22X31	3.06	25X26	3.06				
12000	22X31	3.40	25X26	3.40					22X31	3.40	25X26	3.40				
15000	22X36	3.90	25X31	3.90					22X36	3.90	25X31	3.90				
18000	22X41	4.30	25X31	4.30					22X41	4.30	25X31	4.30				
22000	22X46	4.60	25X36	4.60	30X31	4.60			22X46	4.60	25X36	4.60	30X31	4.60		
27000			25X46	7.50	30X36	7.50					25X46	7.50	30X36	7.50		
33000			25X51	8.00	30X41	8.00	35X32	8.00			25X51	8.00	30X41	8.00	35X32	8.00
39000					30X46	8.30	35X37	8.30					30X46	8.30	35X37	8.30
47000					30X51	8.50	35X42	8.50					30X51	8.90	35X42	8.90
56000							35X47	10.0					30X56	10.5	35X52	10.8
68000							35X52	10.5								

WV (V)	25 (2)								35 (4)							
	22		25		30		35		22		25		30		35	
	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.
3300									22X26	2.40						
3900									22X31	2.60						
4700	22X26	2.64							22X31	2.68	25X26	2.68				
5600	22X31	2.78							22X31	2.70	25X26	2.70				
6800	22X31	2.93	25X26	2.93					22X36	3.06	25X31	3.06				
8200	22X31	3.00	25X26	3.00					22X41	3.20	25X36	3.20				
10000	22X36	3.40	25X31	3.40	30X26	3.40			22X46	3.60	25X41	3.60	30X31	3.60		
12000	22X41	3.84	25X36	3.84	30X31	3.84			22X51	3.80	25X46	3.80	30X36	3.80	35X32	3.80
15000	22X51	4.30	25X41	4.30	30X31	4.30					25X51	3.92	30X41	3.92	35X32	9.92
18000			25X46	4.80	30X36	4.80							30X46	4.70	35X37	4.70
22000			25X51	5.40	30X41	5.40							30X51	5.40	35X42	5.40
27000					30X46	5.90	35X37	5.90							35X47	5.70
33000					30X51	6.20	35X42	6.20							35X52	6.30
39000							35X47	7.00								
47000							35X52	7.60								

尺寸与纹波对照表 Ripple current vs size

øD x L(mm)

WV (V)	160 (ø100)								200 (ø150)							
	22		25		30		35		22		25		30		35	
	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.
150									22x21	0.96						
180	22x21	1.10							22x26	1.00						
220	22x26	1.20							22x26	1.36						
270	22x26	1.35							22x31	1.50						
330	22x31	1.44							22x31	1.89	25x26	1.89				
390	22x31	1.66	25x36	1.66					22x31	1.92	25x31	1.92				
470	22x36	1.76	25x31	1.70					22x36	2.23	22x31	2.23	30x26	2.23		
560	22x36	2.03	25x31	2.03	30x26	2.03			22x41	2.57	25x41	2.57	30x26	2.57		
680	22x41	2.36	25x36	2.36	30x31	2.36			22x46	2.98	25x36	2.98	30x31	2.98		
820	22x46	2.70	25x41	2.70	30x36	2.70			22x51	3.26	25x46	3.26	30x36	3.26	35x27	3.26
1000			25x46	3.10	30x41	3.10	35x32	3.10			25x51	3.92	30x41	3.92	35x32	3.92
1200			25x51	3.40	30x36	3.40	35x37	3.80					30x46	4.25	35x37	4.25
1500					30x46	3.90	35x37	3.90					30x51	4.90	35x42	4.90
1800					30x51	4.40	35x42	4.40							35x47	5.80
2200							35x47	4.65							35x52	6.07
2700							35x52	4.70								

WV (V)	220 (ø170)								250 (ø200)							
	22		25		30		35		22		25		30		35	
	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.
150	22x21	0.75							22x26	0.98						
180	22x26	0.95							22x31	1.12						
220	22x26	1.10							22x31	1.36	25x26	1.36				
270	22x31	1.30	25x26	1.30					22x31	1.60	25x31	1.72				
330	22x31	1.50	25x26	1.50					22x36	1.87	25x31	1.87	30x26	1.87		
390	22x36	1.65	25x31	1.65					22x41	2.04	25x36	2.04	30x31	2.04		
470	22x41	1.85	25x36	1.85	30x26	1.85			22x46	2.38	25x41	2.38	30x31	2.38		
560	22x46	2.20	25x41	2.20	30x31	2.20	35x27	2.20	22x51	2.74	25x46	2.80	30x36	2.80	35x27	2.80
680	22x51	2.30	25x46	2.30	30x36	2.30	35x27	2.30			25x51	3.10	30x41	3.10	35x32	3.10
820	22x51	2.50	25x51	2.60	30x41	2.50	35x32	2.50					30x46	3.50	35x37	3.50
1000			25x56	3.20	30x46	3.20	35x37	3.20					30x51	4.00	35x42	4.00
1200					30x51	3.70	35x42	3.70							35x47	4.50
1500					30x56	3.85	35x47	3.85							35x52	5.30
1800							35x52	4.00								
2200							35x57	4.20								

尺寸与纹波对照表 Ripple current vs size

øD x L(mm)

WV (V)	350 (400)								400 (450)							
	22		25		30		35		22		25		30		35	
	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.
68									22x31	0.51						
82									22x26	0.83						
100	22x26	0.76		0.89					22x31	1.03	25x26	1.03				
120	22x31	0.89	25x26	1.08					22x31	1.07	25x26	1.07				
150	22x36	1.08	25x31	1.15					22x36	1.26	25x31	1.26	30x26	1.26		
180	22x41	1.15	25x36	1.40	30x26	1.15			22x41	1.46	25x36	1.46	30x31	1.46		
220	22x46	1.40	25x41	1.63	30x31	1.40	35x27	1.40	22x51	1.75	25x41	1.75	30x36	1.75		
270			25x46	1.88	30x36	1.63	35x27	1.63			25x46	1.96	30x36	1.96	35x32	1.96
330			25x51		30x41	1.88	35x32	1.88			25x51	2.20	30x41	2.20	35x37	2.20
390					30x46	2.20	35x37	2.20					30x46	2.50	35x42	2.50
470					30x51	2.40	35x42	2.40							35x47	2.80
560							35x47	2.90							35x52	3.10
680							35x52	3.20								

WV (V)	420 (470)								450 (600)							
	22		25		30		35		22		25		30		35	
	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.
68	22x31	0.49							22x31	0.50						
82	22x31	0.85	25x26	0.85					22x31	0.89	25x26	0.89				
100	22x36	1.03	25x26	1.03					22x36	1.03	25x31	1.03				
120	22x36	1.12	25x31	1.12					22x41	1.19	25x36	1.19				
150	22x41	1.32	25x36	1.32	30x31	1.32			22x51	1.39	25x41	1.39	30x31	1.39		
180			25x41	1.48	30x36	1.48			22x51	1.50	25x46	1.50	30x36	1.50		
220			25x46	1.75	30x41	1.75	35x32	1.75			25x51	1.70	30x41	1.70	35x37	1.70
270			25x51	1.98	30x46	1.98	35x37	1.98					30x46	2.00	35x37	2.00
330							35x42	1.27					30x46	2.30	35x37	2.30
390							35x47	2.52							35x42	2.50
470															35x47	2.89

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

尺寸与纹波对照表 Ripple current vs size

øD x L(mm)

WV (V)	50 (63)								63 (79)							
	22		25		30		35		22		25		30		35	
	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.
1000									22x26	1.58						
1500	22x26	1.40							22x26	1.68						
2200	22x26	2.04							22x31	2.52	25x26	2.52				
2700	22x31	2.30							22x36	2.82	25x31	2.82				
3300	22x31	2.60	25x26	2.60					22x41	3.10	25x31	3.10	30x26	3.10		
3900	22x31	2.70	25x26	2.70					22x46	3.20	25x36	3.20	30x31	3.20		
4700	22x36	2.80	25x31	2.80	30x26	2.80			22x51	3.28	25x41	3.28	30x36	3.28	35x27	3.28
5600	22x41	3.06	25x36	3.06	30x31	3.06					25x46	3.80	30x36	3.80	35x32	3.80
6800	22x51	3.20	25x41	3.20	30x31	3.20					25x51	4.30	30x41	4.30	35x32	4.30
8200			25x46	3.45	30x36	3.45							30x46	4.40	35x37	4.40
10000			25x51	3.90	30x41	3.90	35x32	3.90							35x47	4.70
12000					30x46	4.10	35x37	4.10								
15000					30x51	4.70	35x42	4.70								
18000							35x47	5.30								
22000							35x52	5.80								

WV (V)	80 (100)								100 (125)							
	22		25		30		35		22		25		30		35	
	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.
680	22x26	1.34							22x26	1.53						
1000	22x26	1.60							22x31	1.60	25x26	1.60				
1200	22x31	1.65							22x36	1.70	25x31	1.70				
1500	22x31	1.70	25x26	1.70					22x41	1.85	25x36	1.80	30x31	1.80		
1800	22x36	1.80	25x31	1.80					22x46	2.20	25x41	2.20	30x31	2.20		
2200	22x41	2.50	25x31	2.50	30x26	2.50			22x51	2.60	25x41	2.60	30x31	2.60		
2700	22x46	2.70	25x36	2.70	30x31	2.70			22x51	3.08	25x46	3.10	30x36	3.10		
3300	22x51	3.20	25x41	3.20	30x31	3.20					25x51	3.40	30x41	3.40		
3900			25x46	3.40	30x36	3.40							30x46	3.50	35x37	3.50
4700			25x51	3.60	31x41	3.60							30x51	3.70	35x42	3.70
5600					30x46	3.70	35x37	3.70							35x47	3.78
6800					30x51	4.60	35x42	4.60							35x52	4.10
8200							35x52	4.90								
10000							35x63	5.00								