

MP 焊針型標準品

SNAP-IN TERMINAL TYPE , STANDARD SERIES

低中高壓，焊針式標準品，可用於大螢幕彩電、變頻空調、音響等電子線路中。

Low,medium and high voltage ,standard,

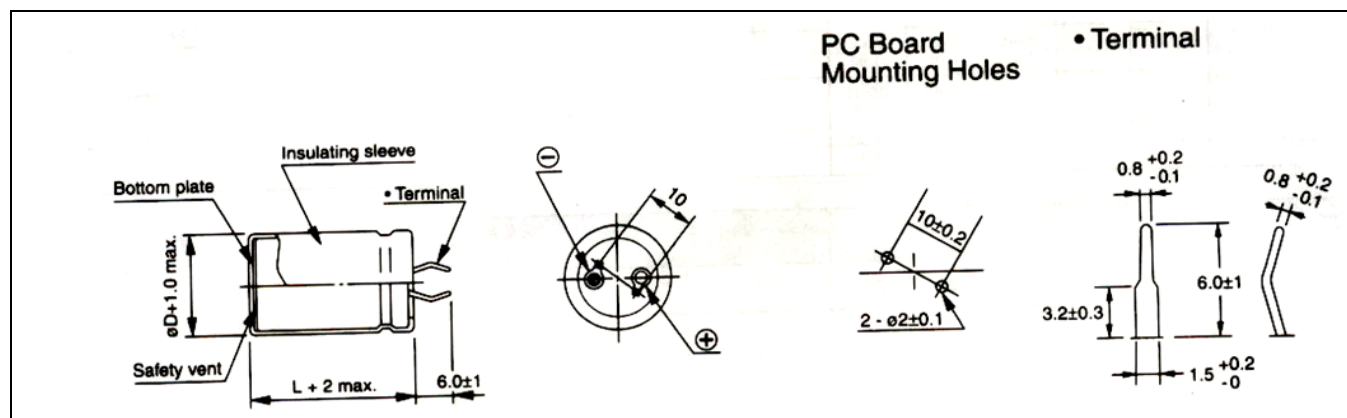
Use in big screen color-TV ,frequency conversion air conditioner audio circuits,ets.

Specifications

Performance												
No	Item	Performance										
1	使用溫度範圍 Operating Temperature Range	-40℃ to +85℃					-25℃ to +85℃					
2	定格電壓範圍 Rated Working Voltage Range	10~100V.DC					160~450V.DC					
3	靜電容量範圍 Capacitance Tolerance	470—68000μF					47-2700μF					
4	靜電容量容許差 Capacitance Tolerance	±20%(at+20 ⁰ C,120Hz)										
5	洩漏電流 Leakage Current	I≤0.03CV (μA) + 3mA (whichever is greater) after five minutes										
6	損失角 Dissipation Factor(tan δ) (120Hz+20℃)	Working Voltage (V)	10	16	25	35	50	63	80	100	160~400	450
		tan δ max.	0,55	0,50	0,45	0,40	0,35	0,30	0,25	0,20	0.15	0,25
7	低溫度特性 (at 120 Hz) Characteristics at low temperature (Impedance ratio at 120Hz)	Working Voltage (V)		10~250		350~400		450				
		Z-25℃/+20℃		3		4		12				
		Z-40/℃+20℃		12		-		-				
8	高溫負荷特性 High Temperature Loading	After 2000hrs. application of DC rated working voltage at +85℃.The capacitor shall meet the following limits: Post test requirements at + 20℃										
		Leakage current		≤ the Initial specified value								
		Capacitance change		≤±20% of initial measured value								
9	高溫無負荷特性 Shelf Life	After 1000hrs. Application of DC no rated working voltage at +85℃,The capacitor shall meet the following limits: Post test requirements at + 20℃										
		Leakage current		≤200% of initial specified value								
		Capacitance change		≤±20% of initial measured value								
		Dissipation Factor(tanδ)		≤200% of initial specified value								

Diagram of Dimensions

Unit (mm)



Multiplier for ripple current 紋波電流補正係數

Frequency Coefficient 周波數係數

數

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

Temperature Coefficient 周圍溫度係數

temperature (℃)	85	≤65
Coefficient	1.0	1.3

MP series

DIMENSIONS & MAXIMUM PEMISSIONABLE RIPPLE CURRENT 规格尺寸及最大允许纹波电流

W.V. (SV) ØD µF	10 (13)								16 (20)							
	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	22×21	2.40							22×21	2.40						
6800	22×26	2.84							22×26	2.84						
8200	22×26	2.90							22×26	2.90						
10000	22×31	3.06	25×26	3.06					22×31	3.06	25×26	3.06				
12000	22×31	3.43	25×26	3.43					22×31	3.43	25×26	3.43				
15000	22×36	3.94	25×31	3.94					22×36	3.94	25×31	3.94				
18000	22×41	4.34	25×31	4.34					22×41	4.34	25×31	4.34				
22000	22×46	4.80	25×36	4.80	30×31	4.80			22×46	4.80	25×36	4.80	30×31	4.80		
27000			25×46	7.57	30×36	7.57					25×46	7.57	30×36	7.57		
33000			25×51	8.20	30×41	8.20	35×32	8.20			25×51	8.20	30×41	8.20	35×32	8.20
39000					30×46	8.33	35×37	8.33					30×46	8.33	35×37	8.33
47000					30×51	8.96	35×42	8.96					30×51	8.96	35×42	8.96
56000							35×47	10.5					30×56	10.5	35×52	10.8
68000							35×52	10.8								

W.V. (SV) ØD µF	25 (32)								35 (44)							
	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.
2200									22×26	2.18						
3300									22×26	2.46						
3900									22×31	2.64						
4700	22×26	2.64							22×31	2.68	25×26	2.68				
5600	22×31	2.78														
6800	22×31	2.93	25×26	2.93					22×36	3.06	25×31	3.06				
8200	22×31	3.05	25×26	3.05												
10000	22×36	3.43	25×31	3.43	30×26	3.43			22×46	3.60	25×41	3.60	30×31	3.60		
12000	22×41	3.84	25×36	3.84	30×31	3.84					25×46	3.92	30×36	4.08	35×32	4.08
15000	22×51	4.39	25×41	4.39	30×31	4.39					25×51	4.08	30×41	3.92	35×32	3.92
18000			25×46	4.80	30×36	4.80							30×46	4.70	35×37	4.70
22000			25×51	5.40	30×41	5.40							30×51	5.45	35×42	5.45
27000					30×46	5.97	35×37	5.97							35×47	5.78
33000					30×51	6.24	35×42	6.24							35×52	6.36
39000							35×47	7.10								
47000							35×52	7.60								

Case size ØD×L (mm); R. C.=Ripple current (A rms) at85℃, 120Hz

MP series

DIMENSIONS & MAXIMUM PEMISSIONABLE RIPPLE CURRENT 规格尺寸及最大允许纹波电流

W.V. (SV) ØD µF	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									22×26	1.58						
1500	22×26	1.44							22×26	1.68						
2200	22×26	2.04							22×31	2.52	25×26	2.52				
2700	22×31	2.30							22×36	2.82	25×31	2.82				
3300	22×31	2.64	25×26	2.64					22×41	3.12	25×31	3.12	30×26	3.12		
3900									22×46	3.21	25×36	3.21	30×31	3.21		
4700	22×36	2.88	25×31	2.88	30×26	2.88			22×51	3.28	25×41	3.28			35×27	3.28
5600	22×41	3.06	25×36	3.06	30×31	3.06					25×46	3.86	30×36	3.86	35×32	3.86
6800	22×51	3.24	25×41	3.24	30×31	3.24					25×51	4.32	30×41	4.32	35×32	4.32
8200			25×46	3.48	30×36	3.48							30×46	4.44	35×37	4.44
10000			25×51	3.96	30×41	3.96	35×32	3.96							35×47	4.77
12000					30×46	4.10	35×37	4.10								
15000					30×51	4.70	35×42	4.70							35×63	5.04
18000							35×47	5.30								
22000							35×52	5.85								

W.V. (SV) ØD µF	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.
470									22×21	1.34						
680	22×26	1.34							22×26	1.53						
1000	22×26	1.62							22×31	1.62	25×26	1.62				
1200	22×31	1.65							22×36	1.74	25×31	1.74				
1500	22×31	1.76	25×26	1.76					22×41	1.85	25×36	1.85	30×31	1.85		
1800	22×36	1.82	25×31	1.82					22×46	2.20	25×41	2.20	30×31	2.20		
2200	22×41	2.52	25×31	2.52	30×26	2.52			22×51	2.64	25×41	2.64	30×31	2.64		
2700	22×46	2.76	25×36	2.76	30×31	2.76					25×46	3.16	30×36	3.16		
3300	22×51	3.24	25×41	3.24	30×31	3.24					25×51	3.42	30×41	3.42		
3900			25×46	3.40	30×36	3.40							30×46	3.58	35×37	3.58
4700			25×51	3.60	30×41	3.60							30×51	3.72	35×42	3.72
5600					30×46	3.78	35×37	3.78							35×47	3.72
6800					30×51	4.60	35×42	4.60							35×52	4.10
8200							35×52	4.92								
10000							35×63	5.04								

Case size ØD×L (mm); R. C.=Ripple current (A rms) at85℃, 120Hz

MP series

DIMENSIONS & MAXIMUM PEMISSIONABLE RIPPLE CURRENT 规格尺寸及最大允许纹波电流

W.V. (SV) µF ØD	160 (200)								200 (250)							
	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									22×21	0.96						
180	22×21	1.12							22×26	1.00						
220	22×26	1.20							22×26	1.36						
270	22×26	1.35							22×31	1.50						
330	22×31	1.44							22×31	1.89	25×26	1.89				
390	22×31	1.66	25×26	1.66					22×31	1.92	25×31	1.92				
470	22×36	1.76	25×31	1.76					22×36	2.23	25×31	2.23	30×26	2.23		
560	22×36	2.03	25×31	2.03	30×26	2.03			22×41	2.57	25×36	2.57	30×26	2.57		
680	22×41	2.36	25×36	2.36	30×31	2.36			22×46	2.98	25×41	2.98	30×31	2.98		
820	22×46	2.72	25×41	2.72	30×36	2.72					25×46	3.26	30×36	3.26	35×27	3.26
1000			25×46	3.13	30×36	3.13	35×32	3.13			25×51	3.92	30×41	3.92	35×32	3.92
1200			25×51	3.44	30×41	3.44	35×37	3.44					30×46	4.25	35×37	4.25
1500					30×46	3.96	35×37	3.96					30×51	4.99		
1800					30×51	4.47	35×42	4.47							35×47	5.84
2200							35×47	4.65							35×52	6.07
2700							35×52	4.76								

W.V. (SV) µF ØD	220 (270)							
	22		25		30		35	
	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.
150	22×21	0.75						
180	22×26	0.95						
220	22×26	1.10						
270	22×31	1.30	25×26	1.30				
330	22×31	1.55	25×26	1.55				
390	22×36	1.65	25×31	1.65				
470	22×41	1.85	25×36	1.85	30×26	1.85		
560	22×46	2.20	25×41	2.20	30×31	2.20	35×27	2.20
680	22×51	2.30	25×46	2.30	30×36	2.30	35×27	2.30
820			25×51	2.60	30×41	2.60	35×32	2.60
1000			25×56	3.20	30×46	3.20	35×37	3.20
1200					30×51	3.70	35×42	3.70
1500					30×56	3.85	35×47	3.85
1800							35×52	4.00
2200							35×57	4.20

Case size ØD×L (mm); R. C.=Ripple current (A rms) at 85°C, 120Hz

MP series

DIMENSIONS & MAXIMUM PEMISSIONABLE RIPPLE CURRENT 规格尺寸及最大允许纹波电流

 WV (SV) D Ø µF	250 (300)										350 (400)									
	22		25		30		35		40		22		25		30		35		40	
	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.
100											22×26	0.76								
120	22×21	0.85									22×31	0.89	25×26	0.89						
150	22×26	0.98									22×36	0.99	25×31	0.99	30×26	0.99				
180	22×31	1.12									22×41	1.15	25×36	1.15	30×26	1.15				
220	22×31	1.36	25×26	1.36							22×46	1.40	25×41	1.40	30×31	1.40	35×27	1.40		
270	22×31	1.60	25×31	1.60									25×46	1.63	30×36	1.63	35×27	1.63		
330	22×36	1.87	25×31	1.87	30×26	1.87							25×51	1.88	30×41	1.88	35×32	1.88		
390	22×41	2.04	25×36	2.04	30×31	2.04									30×46	2.12	35×37	2.12		
470	22×46	2.38	25×41	2.38	30×31	2.38									30×51	2.41	35×42	2.41		
560			25×46	2.81	30×36	2.81	35×27	2.81									35×47	2.90		
680			25×51	3.11	30×41	3.11	35×32	3.11									35×52	3.20		
820					30×46	3.55	35×37	3.55												
1000					30×51	4.00	35×42	4.00												
1200							35×47	4.55												
1500							35×52	5.34												
1800									40×52	6.11										

 WV (SV) D Ø µF	400 (450)										450 (500)									
	22		25		30		35		40		22		25		30		35		40	
	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.
47	22×21	0.42									22×26	0.36								
68	22×26	0.51									22×31	0.50								
82	22×31	0.83									22×31	0.89	25×26	0.89						
100	22×31	1.03	25×26	1.03							22×36	1.03	25×31	1.03						
120	22×31	1.07	25×26	1.07							22×41	1.19	25×36	1.19						
150	22×36	1.26	25×31	1.26	30×26	1.26					22×51	1.39	25×41	1.39	30×31	1.39				
180	22×41	1.46	25×36	1.46	30×31	1.46					22×51	1.52	25×46	1.52	30×36	1.52				
220	22×51	1.75	25×41	1.75	30×36	1.75							25×51	1.76	30×41	1.76	35×37	1.76		
270			25×46	1.96	30×36	1.96	35×32	1.96							30×46	2.09	35×37	2.09		
330			25×51	2.26	30×41	2.26	35×37	2.26							30×46	2.29	35×37	2.29		
390					30×46	2.50	35×42	2.50									35×42	2.54	40×37	2.54
470							35×47	2.80	40×37	2.80							35×47	2.89	40×42	2.89
560							35×52	3.16	40×46	3.20									40×52	3.26
680									40×52	3.69										

Case size ØD×L (mm); R.C.=Ripple current (A rms) at 85°C, 120Hz