

SP 焊针式标准品

85℃, 2000小时, 焊针引出

Load life of 2000hours at 85℃, snap-in terminal

适用于家电、音频、电源、新能源、普通工业类等领域

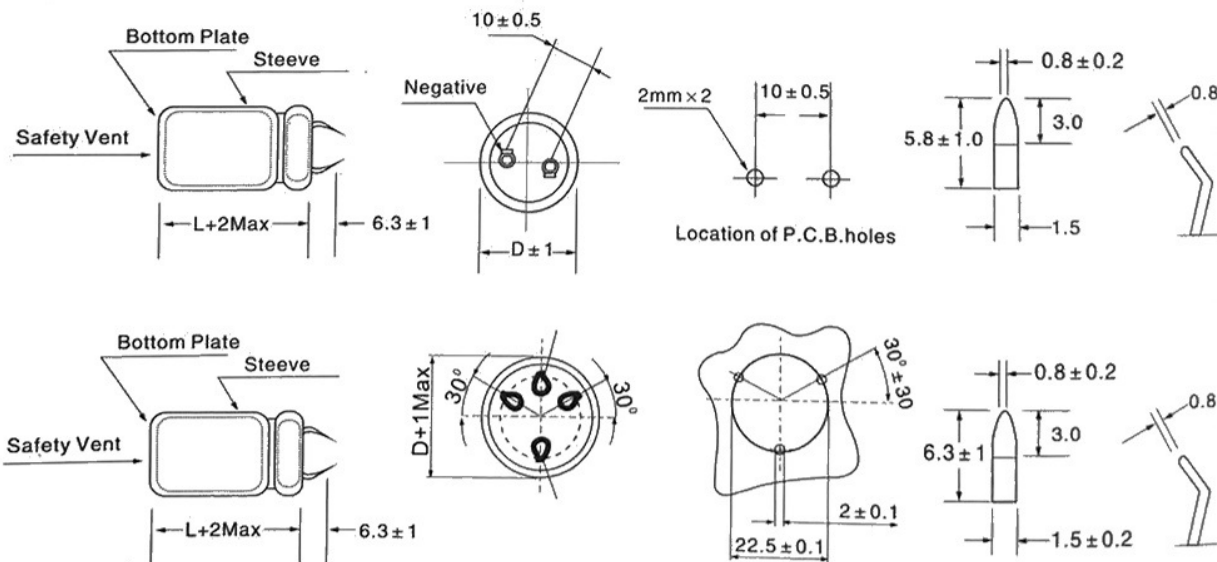
Used in home appliance, audio equipment, power, new energy, normal industrial etc



Specifications

项目 Items	特性 Characteristics
工作温度范围 Operating temperature range	-40~+85℃
额定电压范围 Rated voltage range	10V~100V DC
静电容量范围 Nominal capacitance tolerance	68 μF~82000 μF
静电容量误差 Capacitance tolerance	±20% (120Hz · 20℃)
漏电流 (20℃) leakage current(20℃)	I ≤ 0.03 CV (μA) after 5 minute I: Leakage current C: Normal capacitance V: Rated voltage
损耗角正切 Dissipation factor (120Hz · 20℃)	Less than the value under table (%)
	Cap(μF)\Rated voltage(V)
	10~16 25 35~50 63 80~100 160~250 400~600
	≤2700 — — 20 15 15 18 20
	3300 - 4700 — 35 25 20 15 18 20
	5600 - 6800 40 35 30 20 20 18 20
	≥8200 40 35 35 25 — 18 20
低温特性 Low temperature characteristics (Impedance ratio max. at 120Hz)	Rated voltage(V)
	10 16~35 50~100 160~200 250~400 450~600
	Z-25℃/Z+20℃ 5 4 4 4 4 8
	Z-40℃/Z+20℃ 18 15 10 6 8 —
高温负荷特性 Endurance	After applying rated for 2000 hours at 85℃ then resumed 16 hours:
	Capacitance change Within ±20% of the initial measured value
	tg δ ≤200% of the initial specified value
	Leakage current ≤initial specified value
高温贮存特性 Shelf life	After storage for 1000 hours at 85℃ then resumed 24 hours:
	Capacitance change Within ±20% of the initial measured value
	tg δ ≤200% of the initial specified value
	Leakage current ≤initial specified value

Diagram of Dimensions(mm)



Multiplier for Ripple Current vs. Frequency:

Voitage(V)\Hz	50(60)	120	1K	10K	50-100K
≤50	0.95	1.00	1.10	1.15	1.15
63~100	0.95	1.00	1.16	1.30	1.33
≥160	0.95	1.00	1.20	1.50	1.55

Multiplier for Ripple Current vs. Temperature:

Temperature℃	45	60	70	85
Factor	1.55	1.30	1.20	1.00

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Standard Ratings

WV(Coad)		10V		16V		25V		35V		50V	
C(uf)	Coad	$\phi D \times L$	R.C.	$\phi D \times L$	R.C.	$\phi D \times L$	R.C.	$\phi D \times L$	R.C.	$\phi D \times L$	R.C.
2200	222									22×25	1.70
2700	272									22×30	1.90
										25×25	1.90
3300	332							22×25	1.80	22×35	2.00
										25×25	1.80
3900	392							22×30	2.10	22×35	2.10
										25×30	2.10
4700	472							25×25	2.2	22×40	2.40
										25×35	2.40
										30×25	2.22
5600	562					22×25	2.00	22×35	2.30	22×50	2.50
								25×30	2.30	25×40	2.50
										30×30	2.50
6800	682					22×30	2.30	22×40	2.90	22×50	2.80
						25×25	2.30	25×35	2.60	25×45	2.80
								30×25	2.70	30×35	2.80
8200	822			22×25	2.20	22×35	2.60	22×50	2.80	25×50	3.20
						25×25	2.60	25×40	2.80	30×40	3.00
								30×30	2.80	35×30	3.00
10000	103	22×25	2.50	22×30	2.60	22×40	2.90	22×50	3.13	30×50	3.40
				25×25	2.60	25×30	2.80	25×45	3.10	35×35	3.40
						30×25	2.80	30×30	2.77		
12000	123	22×30	3.17	22×35	2.90	22×45	3.30	25×50	3.50	30×50	3.80
		22×25	2.90	25×25	2.96	25×35	3.20	30×40	3.50	35×40	3.80
						30×30	3.40	35×30	3.60		
15000	153	22×30	3.20	22×40	3.30	25×40	3.70	30×45	4.10	30×50	4.16
				25×30	3.30			35×35	4.10	35×50	4.50
		25×25	3.10	30×25	3.40	35×25	3.90				
18000	183	22×35	3.60	22×45	3.80	25×50	4.30	30×50	4.60	35×50	4.92
				25×35	3.70	30×35	4.20	35×40	4.70		
		25×30	3.60	30×30	3.88	35×30	4.40				
22000	223	22×40	4.00	22×35	3.51	30×40	4.80	35×45	5.30		
				22×50	4.20						
		25×35	4.10	25×40	4.20	35×35	5.00				
		30×25	4.10	30×30	4.20						
27000	273	22×45	4.45	25×45	5.00	30×45	6.02	35×50	7.00		
		25×35	4.54	30×35	5.00	35×40	6.02				
		30×30	4.54	35×30	5.00						
33000	333	25×40	4.60	25×50	5.56						
		30×30	4.80	30×40	5.60	35×40	6.50				
		35×25	4.80	35×35	5.71						
39000	393	25×45	5.20	30×45	6.20	35×50	7.50				
		30×35	5.30	35×35	6.30						
		35×30	5.30								
47000	473	25×50	5.80	30×50	7.00						
		30×40	6.00	35×40	7.20						
		35×35	6.12								
56000	563	30×45	6.70	35×45	8.00						
		35×35	6.80								
68000	683	30×50	7.50								
		35×40	7.70								
82000	823	35×50	8.70								

Permit ripple current : (Arms, 85℃, 120HZ)

Case size: $\phi D \times L$ (mm)

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Standard Ratings

WV(Coad)		63V		80V		100V		160V		180V	
C(uf)	Coad	$\phi D \times L$	R.C.	$\phi D \times L$	R.C.	$\phi D \times L$	R.C.	$\phi D \times L$	R.C.	$\phi D \times L$	R.C.
270	271							22×25	1.11	22×25	1.23
330	331							22×25	1.21	22×30	1.40
										22×25	1.38
390	391							22×30	1.55	22×30	1.50
								25×25	1.55	25×25	1.50
470	471							22×35	1.62	22×30	1.70
								25×30	1.60	25×25	1.70
								30×30	1.75	30×25	1.80
560	561							22×35	1.90	22×40	2.04
								22×50	2.27		
								25×30	1.90	25×30	2.05
680	681					22×25	1.1	22×40	2.10	22×40	2.25
								25×30	2.03	25×35	2.23
								30×25	2.03	30×25	2.27
820	821					22×30	1.20	22×50	2.50	25×45	2.50
								25×40	2.40	30×35	2.60
								30×30	2.51	35×30	2.50
1000	102			22×25	1.3	22×30	1.43	25×35	2.38	30×35	2.91
						22×35	1.55	30×35	2.80		
						25×25	1.40	35×30	2.70	35×30	2.95
1200	122			22×30	1.50	22×35	1.60	25×45	3.27	25×50	3.46
				25×25	1.45			30×35	3.25	30×40	3.38
						25×30	1.60	35×30	3.24	35×30	3.32
1500	152	22×25	1.60	22×30	1.70	22×40	1.80	25×50	3.77	25×60	3.58
				25×25	1.70	25×30	1.70	30×40	3.70	35×40	3.60
1800	182	22×25	1.80	22×35	1.90	22×50	2.10	30×50	3.8	30×60	4.32
		22×30	1.97	25×30	1.92	25×40	2.00				
						30×30	2.20	35×45	3.9	35×40	3.9
2200	222	22×30	2.00	22×40	2.10	25×45	2.20	30×60	4.56	35×50	4.53
		25×25	2.00	25×35	2.20	30×35	2.30	35×45	4.26		
				30×25	2.20	35×30	2.50				
2700	272	22×35	2.20	22×50	2.50	25×50	2.60	35×50	4.97	35×68	5.85
				25×40	2.50	30×40	2.70				
		25×30	2.30	30×30	2.50	35×30	2.60				
		22×40	2.30	22×50	2.46	25×50	3.00				
3300	332	25×35	2.30	25×40	2.80	30×40	3.00			35×70	6.50
		30×25	2.30	30×35	2.80	35×35	3.10				
		22×45	2.50	25×50	3.10	30×50	3.40				
3900	392	25×40	2.60	30×40	3.20	35×40	3.40				
		30×30	2.60	35×30	3.20	35×50	3.70				
		22×50	2.84	25×50	3.50	30×50	5.13				
4700	472	25×40	2.84	30×40	3.60	30×60	4.00				
		30×30	2.84	35×30	3.50	35×50	4.00				
		25×45	3.10	30×50	3.50	30×60	4.36				
5600	562	30×35	3.20			35×50	4.36				
		35×30	3.30	35×40	3.50	35×60	4.77				
		25×50	3.60	30×50	3.56	30×70	5.15				
6800	682	30×40	3.60	35×40	3.66	35×50	4.77				
		35×35	3.70	35×50	4.10	35×60	5.22				
8200	822	30×50	3.70	35×50	4.49	35×70	6.20				
		35×40	3.80								
		30×50	4.19	35×70	5.86						
10000	103	35×45	4.30								
12000	123	35×50	4.80	35×90	7.27						
15000	153	35×70	6.34	35×100	8.56						
18000	183	35×90	7.87								
22000	223	35×100	9.17								

Permit ripple current : (Arms, 85℃, 120HZ)

Case size: $\phi D \times L$ (mm)

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Standard Ratings

WV(Coad)		200V		220V		250V		315V		350V	
C(uf)	Coad	φ D × L	R.C.	φ D × L	R.C.	φ D × L	R.C.	φ D × L	R.C.	φ D × L	R.C.
120	121									22 × 30	0.82
150	151					22 × 30	0.8	22 × 30	0.85	22 × 30	1.14
										25 × 25	1.16
180	181			22 × 25	1.09	22 × 25	1.14	22 × 30	0.96	22 × 40	1.18
								25 × 25	0.96	25 × 30	1.30
220	221	22 × 25	1.13	22 × 30	1.15	22 × 30	1.10	22 × 40	1.10	22 × 40	1.40
										25 × 35	1.46
						25 × 25	1.10	25 × 30	1.10	30 × 25	1.47
270	271	22 × 30	1.21	22 × 30	1.38	22 × 30	1.20	22 × 40	1.60	22 × 45	1.62
										25 × 35	1.65
										25 × 30	1.62
330	331	22 × 30	1.42	22 × 35	1.51	22 × 40	1.40	22 × 45	1.60	22 × 50	1.78
						25 × 35	1.42	25 × 35	1.60	25 × 40	1.88
		25 × 25	1.42	25 × 25	1.49	30 × 25	1.50	30 × 30	1.70	30 × 35	1.93
390	391	22 × 30	1.65	22 × 40	1.73	22 × 45	1.60	22 × 50	1.70	25 × 45	2.04
						25 × 35	1.60	25 × 40	1.80	30 × 35	2.12
		25 × 25	1.63	25 × 30	1.71			30 × 30	1.80	35 × 30	2.19
470	471	22 × 40	1.82	22 × 40	1.99	22 × 50	1.80	25 × 45	1.85	30 × 40	2.41
		25 × 30	1.86	25 × 30	1.95	25 × 40	1.80	30 × 35	1.85		
						30 × 25	1.89	30 × 30	1.80	35 × 30	1.85
560	561	22 × 40	2.08	22 × 45	2.28	25 × 45	2.02	30 × 40	2.00	30 × 45	2.60
		25 × 35	2.05	25 × 35	2.22	30 × 30	2.00				
		35 × 25	2.05	30 × 30	2.19	35 × 40	2.14	35 × 35	2.00	35 × 35	2.62
680	681	22 × 40	2.26	22 × 50	2.46	30 × 40	2.30	30 × 45	2.20	35 × 50	2.75
		25 × 35	2.15	25 × 40	2.40	35 × 30	2.60	35 × 40	2.26		
		30 × 30	2.15	30 × 30	2.39						
820	821	22 × 50	2.43	25 × 45	2.81	25 × 50	2.60	30 × 50	2.80	35 × 60	2.80
		25 × 35	2.17	30 × 35	2.70	30 × 35	2.60	35 × 45	2.80		
		30 × 30	2.33	35 × 30	2.62	35 × 30	2.60				
1000	102	25 × 50	3.12	25 × 50	3.13	30 × 45	3.10	35 × 60	3.2		
		30 × 40	3.00	30 × 40	3.08	35 × 40	3.00				
		35 × 30	2.96	35 × 35	3.05						
1200	182	25 × 50	3.10	30 × 45	3.60	30 × 50	3.40				
		30 × 40	3.10			35 × 40	3.40				
		35 × 35	3.10	35 × 40	3.51						
1500	152	30 × 50	3.75	35 × 45	3.92	35 × 50	3.89				
		35 × 40	3.75								
1800	182	30 × 60	4.23	30 × 60	4.26	35 × 60	4.31				
2200	223	30 × 60	4.67								
		35 × 50	4.60								
3300	333										

Permit ripple current : (Arms, 85°C , 120HZ)

Case size: $\phi D \times L$ (mm)

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Standard Ratings

WV(Coad)		400V		450V		500V		600V	
C(uf)	Coad	$\phi D \times L$	R.C.	$\phi D \times L$	R.C.	$\phi D \times L$	R.C.	$\phi D \times L$	R.C.
56	560			22 × 30	0.55	22 × 35	0.57	22 × 40	0.63
68	680	22 × 25	0.55	22 × 30	0.57	25 × 35	0.60	25 × 40	0.70
82	820	22 × 25	0.65	25 × 35	0.68	25 × 35	0.65	25 × 40	0.72
100	101	25 × 25	0.70	22 × 35	0.72	30 × 35	0.98	30 × 40	1.07
				25 × 30	0.73	25 × 40	0.98	25 × 45	1.08
		22 × 30	0.70	30 × 40	0.92	22 × 45	0.98	22 × 50	1.08
120	121	22 × 30	0.75	22 × 40	0.80	30 × 35	1.00	30 × 40	1.10
		25 × 25	0.75	25 × 30	0.80	35 × 30	1.00	35 × 35	1.10
				30 × 25	0.80				
150	151	22 × 40	0.90	22 × 40	0.95	30 × 40	1.20	30 × 45	1.45
		25 × 25	0.89	25 × 35	0.95	35 × 35	1.20	35 × 40	1.46
		30 × 25	0.95	30 × 30	0.95				
180	181	22 × 45	1.00	22 × 50	1.10	30 × 45	1.40	30 × 50	1.60
		25 × 35	1.00	25 × 40	1.10	35 × 40	1.30	35 × 45	1.61
		30 × 30	1.10	30 × 35	1.10				
				35 × 25	1.20				
220	221	22 × 50	1.10	25 × 50	1.20	25 × 50	1.40	25 × 55	1.70
		25 × 40	1.20	30 × 40	1.30	30 × 45	1.45	30 × 50	1.72
		30 × 40	1.20	35 × 30	1.30	35 × 40	1.60	35 × 45	1.74
270	271	25 × 45	1.30	25 × 50	1.40	30 × 50	1.80	30 × 55	2.05
		30 × 40	1.5	30 × 45	1.40	35 × 45	1.70	35 × 50	2.06
				35 × 35	1.50				
330	331	25 × 50	1.60	30 × 40	1.52	35 × 55	2.00	35 × 60	2.35
		30 × 40	1.60	35 × 40	1.64				
		35 × 30	1.60	35 × 45	1.68				
390	391	35 × 40	1.90	30 × 50	1.90	35 × 60	2.30	35 × 70	2.65
		35 × 45	1.92	35 × 45	1.90				
470	471	30 × 50	2.04	30 × 50	2.03				
		30 × 60	2.24	35 × 40	1.96				
		30 × 45	1.94	35 × 45	2.08				
		35 × 50	2.21	35 × 50	2.20				
560	561	30 × 60	2.33	35 × 50	2.40				
		35 × 50	2.30	35 × 60	2.62				
680	681	30 × 60	2.56	35 × 50	2.64				
		35 × 50	2.53	35 × 60	2.89				
820	821								

Permit ripple current : (Arms, 85°C, 120HZ)

Case size: $\phi D \times L$ (mm)