

HP 焊针式宽温品 (CD294型)



● 105°C, 2000小时, 焊针引出。

Load life of 2000hours at 105°C, snap-in terminal.

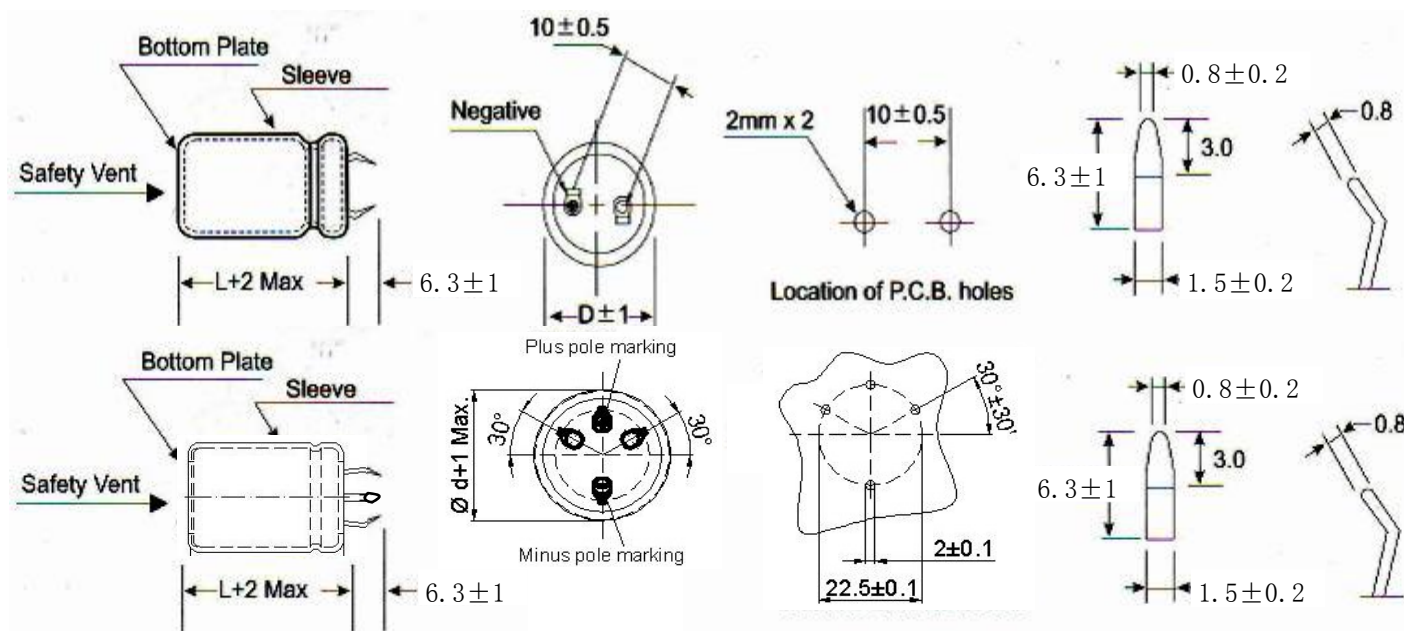
● 适用于工控、新能源等领域。

Used in Industrial Control and new energy field etc

Specification:

项目 Items	特性 Characteristics							
工作温度范围 Operating temperature range	-40~+105°C				-25~+105°C			
额定电压范围 Rated voltage range	16V~100V DC				160V~500V DC			
静电容量范围 Nominal capacitance toletance	56 μ F~56000 μ F							
静电容量误差 Capacitance toletance	±20% (120Hz:20°C)							
漏电流 (20°C) leakage current(20°C)	I ≤ 0.03 CV after 5minute I: Leakage current C: Normaln capacitance V: Rated voltage							
损耗角正切 Dissipation factor (120Hz:20°C)	Less than the value under table (%)							
	Rated voltage(V)	16	25	35	50	63~100	160~400	450~500
	tanδ(max)	50	40	35	30	20	15	20
低温特性 Low temperature characteristics (Impedance ratio max. at 120Hz)	Rated voltage(v)	16	25~35	50~63	80~100	160~200	250~400	450~500
	Z-25°C/Z+20°C	4	3	2	2	3	4	8
	Z-40°C/Z+20°C	15	10	8	6	5	6	—
高温负荷特性 load life	After applying rated for 2000 hours at 105°C then resumed 16 hours:							
	Capacitance change	Within ±20% of the initial measured value						
	tanδ	≤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 105°C then resumed 16 hours:							
	Capacitance change	Within ±20% of the initial measured value						
	tanδ	≤200% of the initial specified value						
	Leakage current	≤initial specified value						

Diagram of Dimensions(mm)



Multiplier for Ripple Current vs. Frequency:

voltage(V)\Hz	50(60)	120	1K	10K	≥20K
≤100	0.95	1.00	1.10	1.15	1.15
160~250	0.70	1.00	1.11	1.18	1.20
≥350	0.80	1.00	1.20	1.50	1.55

Multiplier for Ripple Current vs. Temperature:

Temperature °C	40	55	70	85	105
Factor	2.70	2.50	2.10	1.70	1.00



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Standard Ratings

WV(Coad)		16V		25V		35V		50V							
C(uf)	Coad	φD×L	R. C.	φD×L	R. C.	φD×L	R. C.	φD×L	R. C.						
1500	152							22×25	1.15						
1800	182							22×25	1.31						
2200	222							22×30	1.60						
								25×25	1.60						
2700	272							22×30	1.70						
								25×25	1.70						
3300	332					22×25	1.43	25×25	1.98						
								22×50	2.36						
								25×30	2.12						
3900	392					22×30	1.65	22×40	2.25						
								25×30	2.22						
								30×25	2.22						
4700	472			22×25	1.55	22×40	2.02	22×40	2.56						
										25×35	2.43				
5600	562			22×30	1.85	22×35	2.02	30×30	2.58						
										22×50	2.89				
										25×40	2.81				
6800	682	22×25	1.60	22×30	1.91	25×30	2.04	30×35	2.95						
												22×40	3.30		
												25×35	3.39		
8200	822	22×30	2.00	22×40	2.14	22×50	2.67	30×40	3.31						
												30×25	3.31		
												25×40	3.91		
10000	103	22×30	1.99	25×30	2.25	30×30	2.56	35×35	3.66						
												22×45	3.95		
												25×45	4.09		
12000	123	30×25	2.38	22×50	2.69	25×50	3.26	35×50	4.41						
												30×35	4.41		
												30×40	4.74		
15000	153	22×40	2.64	25×45	3.15	30×45	3.74	35×50	4.74						
														25×35	3.26
														30×30	3.20
18000	183	22×50	2.98	25×50	3.54	35×35	3.69	35×60	5.8						
														25×35	3.22
														35×30	3.92
22000	223	25×45	3.40	30×45	4.24	35×40	4.16	35×50	4.92						
														30×40	3.54
														35×35	3.54
27000	273	30×35	3.39	35×35	3.96	35×50	4.92	35×50	4.92						
														35×30	3.96
														25×50	3.81
33000	333	25×50	3.81	30×45	4.30	35×45	4.74	35×50	5.39						
														30×40	3.83
														35×30	3.74
39000	393	30×45	4.30	35×50	5.39	35×50	5.39	35×50	5.39						
														30×50	4.74
47000	473	35×35	3.96	35×50	5.39	35×50	5.39	35×50	5.39						
														35×40	4.72
56000	563	35×45	5.27												
		35×60	5.74												

Permit ripple current : (Arms, 105°C, 120HZ)

Case size: φD×L (mm)

Aluminum Electrolytic Capacitors

HP 焊针式宽温品 (CD294型)

Standard Ratings

WV (Coad)		63		80		100		160		180	
C(uf)	Coad	φD×L	R. C.	φD×L	R. C.	φD×L	R. C.	φD×L	R. C.	φD×L	R. C.
220	221									22×25	0.81
270	271							22×25	0.87	22×30	0.95
330	331							22×25	1.03	22×30	1.13
390	391							22×35	1.15	22×30	1.32
								22×30	1.17	25×25	1.33
470	471							22×40	1.25	22×40	1.34
								25×25	1.29	25×30	1.43
560	561					22×25	0.95	22×35	1.46	22×40	1.65
								25×30	1.49	25×30	1.53
680	681					22×30	1.15	22×40	1.64	22×45	1.76
						22×25	1.09	25×35	1.70	25×35	1.76
820	821			22×25	1.11	22×30	1.32	30×25	1.63	30×30	1.74
								22×45	1.85	22×50	1.97
1000	102	22×25	1.14	22×25	1.25	22×30	1.47	25×40	1.92	25×40	1.99
						25×25	1.45	30×30	1.91	30×30	1.93
1200	122	22×25	1.25			22×40	1.61	25×45	2.17	25×45	2.24
				22×30	1.44	25×30	1.68	30×35	2.19	30×35	2.24
1500	152	22×30	1.47	20×35	1.57	22×40	1.97	35×30	2.25	35×35	2.54
				22×30	1.59	25×35	1.98	30×45	2.82	30×50	3.03
1800	182	22×30	1.52	25×25	1.59	30×25	1.95	35×35	2.62	35×40	2.91
		25×25	1.52	20×40	1.77	22×45	2.23	30×50	3.13		
2200	222	22×30	1.73	22×35	1.79	25×40	2.20	35×40	2.97	35×45	3.25
		25×30	1.75	25×30	1.71	30×30	2.20				
2700	272	22×45	1.97	22×40	2.03	25×45	2.53				
		25×40	1.99	25×35	1.98	30×35	2.55	35×50	3.34	35×50	3.62
3300	332	30×25	1.98	30×25	1.98	35×30	2.50				
		22×45	1.97	22×45	2.39	25×50	2.82				
3900	392	25×40	1.99	25×40	2.35	30×40	2.86				
		30×25	1.93	30×30	2.35	35×35	2.89				
4700	472	22×50	2.32	25×45	2.64	30×45	3.30				
		25×40	2.27	30×35	2.61						
5600	562	30×30	2.24	35×30	2.47	35×35	3.25				
		25×45	2.54	25×50	2.92	30×50	3.60				
6800	682	30×35	2.55	30×40	2.82	35×40	3.67				
		22×50	2.48	30×45	3.34	35×45	3.80				
8200	822	30×40	2.90	35×35	3.38						
		35×30	2.83								
10000	103	30×50	3.28	30×50	3.80	35×50	4.05				
		35×35	3.24	35×40	3.80						
10000	103	30×50	3.78								
		30×60	4.14	35×45	3.90						
10000	103	35×40	3.71								
		35×50	4.69								

Permit ripple current : (Arms, 105°C, 120HZ)

Case size: φD×L (mm)

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.				
68	680									22×25	0.41				
82	820							22×25	0.39	22×30	0.45				
100	101							22×30	0.45	22×30	0.51				
120	121							22×30	0.54	22×30	0.61				
								25×25		25×25	0.62				
150	151					22×25	0.71	22×30	0.66	22×40	0.70				
								25×25	0.65	25×30	0.73				
180	181			22×25	0.81	22×30	0.82	22×40	0.75	22×40	0.83				
								25×30	0.71	25×30	0.80				
								30×25		30×25	0.81				
220	221	22×25	0.83	22×30	0.94	22×30	0.97	22×40	0.89	22×45	0.94				
								25×30	0.85	25×35	0.92				
								30×25	0.83	30×30	0.98				
270	271	22×30	0.97	22×30	1.09	22×40	1.11	22×45	1.01	22×50	1.07				
								25×35	0.98	25×40	1.05				
								30×30	1.01	30×30	1.03				
330	331	22×30	1.20	22×40	1.24	22×40	1.26	22×50	1.14	25×45	1.24				
								25×30	1.26	25×40	1.24				
		25×25	1.20	25×25	1.14	30×25	1.31	30×35	1.21	35×30	1.18				
390	391	22×40	1.27	22×35	1.30	22×45	1.41	25×45	1.31	25×50	1.38				
								30×35	1.30	30×40	1.39				
		25×25	1.34	25×30	1.26	30×30	1.50	35×30	1.23	35×35	1.39				
470	471	22×40	1.44	22×40	1.41	22×50	1.58	30×40	1.53	30×45	1.57				
		25×30	1.44	25×30	1.39	25×40	1.61								
		30×25	1.48	30×25	1.37	30×30	1.61	35×35	1.47	35×35	1.50				
560	561	22×45	1.60	22×45	1.60	25×45	1.80	30×45	1.65	30×50	1.59				
				25×35	1.56	30×35	1.84	35×40	1.66	35×50	1.61				
		25×35	1.60	30×30	1.61										
		30×30	1.60	35×25	1.52										
680	681	22×50	1.75	25×40	1.75	25×50	2.03	35×45	1.96	35×50	1.96				
		25×40	1.76	30×35	1.76	30×40	2.09								
		30×30	1.74	35×30	1.72	35×30	1.96								
820	821	25×45	2.10	25×45	1.97	30×45	2.35	35×50	2.19						
		30×35	2.11	30×40	2.06	35×35	2.26								
		35×30	2.10	35×30	1.95										
1000	102	25×50	2.36	30×45	2.44	30×50	2.64								
		30×40	2.40	35×35	2.20	35×40	2.57								
		35×35	2.30												
1200	122	30×45	2.59	35×40	2.37	35×50	2.72								
		35×35	2.53												
1500	152	35×40	2.62	35×50	2.64										
1800	182	35×50	2.70												
2200	222	35×60	3.27												
3300	332	35×70	4.32												

Permit ripple current : (Arms, 105°C, 120HZ)

Case size: φ D×L (mm)



焊针式宽温品 (CD294型)

Standard Ratings

WV(Coad)		385V		400V		450V		500V	
C(uf)	Coad	φD×L	R. C.	φD×L	R. C.	φD×L	R. C.	φD×L	R. C.
56	560	22×25	0.37	22×25	0.41	22×30	0.47	22×40	0.56
68	680	22×30	0.44	22×30	0.47	22×30	0.56	22×50	0.63
				25×25	0.48				
82	820	22×30	0.52	22×30	0.55	25×25	0.65	25×40	0.71
						22×40	0.56		
						22×35	0.53		
100	101	22×30	0.58	22×30	0.61	25×30	0.57	25×50	0.87
						22×40	0.70		
						25×25	0.72		
120	121	22×40	0.66	22×30	0.67	30×25	0.78	30×50	1.04
						25×30	0.68		
						25×25	0.68		
150	151	22×40	0.79	22×40	0.85	25×30	0.73	25×55	1.05
						25×30	0.78		
						25×25	0.77		
180	181	22×40	0.79	22×40	0.85	25×30	0.73	30×50	1.16
						25×30	0.78		
						30×25	0.75		
180	181	22×45	0.89	22×45	0.95	25×40	0.82	30×50	1.16
						25×35	0.86		
						30×25	0.79		
220	221	22×50	1.01	22×50	0.98	25×40	0.80	35×50	1.48
						25×35	0.86		
						30×30	0.86		
270	271	22×50	1.01	22×50	0.98	25×40	0.95	35×50	1.48
						25×40	1.00		
						30×30	1.00		
330	331	25×45	1.13	25×50	1.13	30×40	0.94	35×50	1.63
						30×40	1.14		
						35×30	1.10		
390	391	30×45	1.31	30×40	1.15	35×35	1.15	35×55	1.80
						35×40	1.32		
390	391	30×50	1.32	30×50	1.31	35×45	1.26	35×60	1.96
						35×40	1.35		
470	471	35×50	1.42	30×60	1.42	35×45	1.31	35×70	2.15
						35×55	1.38		
560	561	35×50	1.48	35×50	1.50	30×47	1.25		
680	681	35×55	1.71	35×50	1.50	35×50	1.50		
820	821	35×55	1.71	35×60	1.81	35×60	1.96		
		35×60	1.95	35×70	2.14				

Permit ripple current : (Arms, 105°C, 120HZ)

Case size: φD×L (mm)