

LH Series CD293A型

SNAP-IN WIDE TEMPERATURE STANDARD 焊针, 宽温标准品

- 焊针式, 中高压, 标准品
Snap-in, Medium and high voltage, standard.
- 适用于显示器、彩电、空调等
used in display device, color-TV, air conditioning etc.
- ROHS指令已对应完毕
Adapted to the ROHS directive.



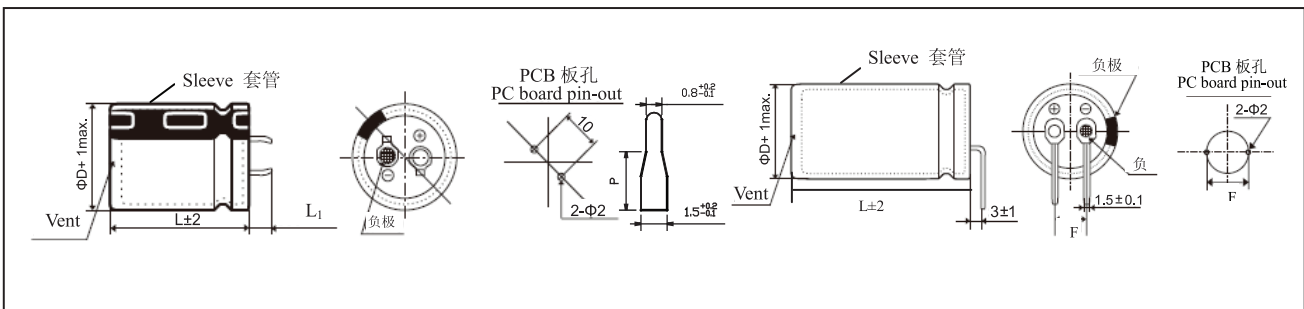
主要技术性能 Specification

项目 Item	特性 Performance Characteristics																										
使用温度范围 Operating temperature range	-40℃ ~ +105℃	-25℃ ~ +105℃																									
额定电压范围 Rated voltage range	10 ~ 200 V	250V ~ 450V																									
标称容量范围 Nominal capacitance range	39 ~ 22000µF																										
标称容量允许偏差 Capacitance tolerance	±20% (120Hz, +20℃)																										
漏电流 Leakage current	I ≤ 0.03CV(µA)或3mA 取较小值(Whichever is smaller) 5分钟 (于 20℃, after 5 minutes)																										
损耗角正切值 (tg δ) Dissipation factor (+20℃, 120Hz)	<table border="1"> <tr> <th>U_R (V)</th> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63~100</td> <td>160~200</td> <td>250~450</td> </tr> <tr> <th>tg δ</th> <td>0.45</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.12</td> <td>0.15</td> </tr> </table>	U _R (V)	10	16	25	35	50	63~100	160~200	250~450	tg δ	0.45	0.35	0.30	0.25	0.20	0.15	0.12	0.15	容量大于3300µF者, 每增加1000µF, 其损耗角正切值增加0.02 When nominal capacitance exceeds 3000µF, add 0.02 to the value above for each 1000µF increase.							
	U _R (V)	10	16	25	35	50	63~100	160~200	250~450																		
tg δ	0.45	0.35	0.30	0.25	0.20	0.15	0.12	0.15																			
温度特性 Temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <th>U_R (V)</th> <td>10,16</td> <td>25</td> <td>35</td> <td>50,63</td> <td>80,100</td> <td>160~200</td> <td>250~450</td> </tr> <tr> <th>Z-25℃/Z+20℃</th> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <th>Z-40℃/Z+20℃</th> <td>15</td> <td>10</td> <td>8</td> <td>6</td> <td>5</td> <td>6</td> <td>-</td> </tr> </table>	U _R (V)	10,16	25	35	50,63	80,100	160~200	250~450	Z-25℃/Z+20℃	4	3	3	2	2	3	4	Z-40℃/Z+20℃	15	10	8	6	5	6	-		
	U _R (V)	10,16	25	35	50,63	80,100	160~200	250~450																			
Z-25℃/Z+20℃	4	3	3	2	2	3	4																				
Z-40℃/Z+20℃	15	10	8	6	5	6	-																				
耐久性 Load life	+105℃施加带纹波电流的额定电压1000小时, 恢复16小时后: After applying rated voltage with specified ripple current for 1000 hours at +105℃ and then resumed for 16 hours: 容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏电流 Leakage current : ≤ 初始规定值 ≤ the initial specified value 损耗角正切值 Dissipation factor : ≤ 2倍初始规定值 ≤ 2 times of the initial specified value																										
	+105℃, 1000小时贮存后, 加额定工作电压处理30分钟, 恢复16小时后: After storage for 1000 hours at +105℃, U _R to be applied for 30 minutes and then resumed for 16 hours: 容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏电流 Leakage current : ≤ 初始规定值 ≤ the initial specified value 损耗角正切值 Dissipation factor : ≤ 2倍初始规定值 ≤ 2 times of the initial specified value																										
高温贮存 Shelf life																											

Snap-in

外形图及尺寸图 Case size table

单位Unit: mm



纹波电流的相关参数 Multiplier For Ripple Current

频率 (Hz)	50	100(120)	1K	10K	20K
U (V)					
10 ~ 50	0.88	1	1.10	1.15	1.15
63 ~ 100	0.81	1	1.16	1.30	1.33
160 ~ 450	0.707	1	1.20	1.50	1.55

环境温度(℃)Temperature	+40	+55	+70	+85	+105
修正系数 Coefficient	2.7	2.5	2.1	1.7	1

LH Series

■ 尺寸 Dimensions

Cap.(μF)	Code	10V		16V		25V		35V		50V		63V		100V	
		13V		20V		32V		44V		63V		79V		125V	
		D×L	(A)	D×L	(A)	D×L	(A)	D×L	(A)	D×L	(A)	D×L	(A)	D×L	(A)
390	391													22×25	0.64
560	561													22×30	0.80
														25×25	0.80
680	681													22×35	0.92
														25×30	0.92
820	821											22×25	0.92	22×40	1.0
														30×25	1.0
1000	102													25×35	1.1
														30×30	1.2
														35×25	1.3
1200	122									22×25	0.96	22×30	1.2	22×50	1.3
												25×25	1.1	30×35	1.4
														35×30	1.4
1500	152											22×35	1.3	25×50	1.5
												35×30	1.3	30×40	1.6
												30×25	1.4	35×35	1.8
1800	182									22×30	1.2	22×40	1.5		
										25×25	1.2	25×35	1.5		
												30×25	1.5		
2200	222							22×25	1.1	22×35	1.4	22×50	1.7	30×50	2.0
												30×30	1.7	35×40	2.0
													35×25	1.8	
2700	272						22×30	1.3	22×40	1.6	30×35	2.0	35×50	2.3	
3300	332					22×25	1.3	25×25	1.3	25×35	1.6	25×50	2.2		
										30×30	1.8	30×40	2.3		
										35×25	1.8				
4700	472			22×25	1.4	22×30	1.6	22×40	1.9	30×35	2.3	30×50	2.8		
						25×25	1.6	30×25	1.9	35×30	2.4	35×40	2.9		
5600	562					22×35	1.8	25×35	2.0	25×50	2.5				
						25×30	1.8	30×30	2.1	30×40	2.5				
								35×25	2.2	35×35	2.7				
6800	682	22×25	1.5	22×30	1.8	22×40		22×50	2.4	30×50	2.9	35×50	3.6		
				25×25	1.8	30×25	2.0	25×40	2.3	35×40	3.0				
8200	822	25×25	1.7	22×35	2.0	25×35	2.2	25×50	2.7						
						30×30	2.3	30×35	2.9						
						35×25	2.4	35×30	2.8						
10000	103	22×30	1.9	22×40	2.3	22×50	2.6	30×40	3.0	35×50	3.8				
				30×25	2.3	25×40	2.6	30×40	3.0						
				25×30	2.2										
12000	123	22×35	2.1	25×35	2.5	25×50	2.9	30×50	3.4						
		25×35	2.1	30×30	2.6	30×35	2.9	35×40	3.5						
		30×25	2.2	35×25	2.7	35×30	3.0								
15000	153	22×40	2.5												
		25×50	2.5	22×50	2.9	30×40	3.3								
		35×25	2.5	25×40	2.9	35×35	3.5								
18000	183	22×50	2.8	25×50	3.3										
		25×40	2.8	30×35	3.3	30×50	3.8	35×50	4.5						
		30×30	2.8	35×30	3.4	35×40	3.9								
22000	223	30×35	3.2	30×40	3.7										
		35×30	3.3	35×35	3.9										

U_R - 额定工作电压

U_S - 浪涌电压

—— 额定纹波电流 Rated ripple current (Arms+105°C, 120Hz)

Snap-in

LH Series

■ 尺寸 Dimensions

∅D × L(mm)

Cap.(μF)	Code	160V(2C)		200V(2D)		250V(2E)		400V(2G)		450V(2w)	
		200		250		300		450		500	
		D×L	(A)	D×L	(A)	D×L	(A)	D×L	(A)	D×L	(A)
39	390							22×25	0.32		
56	560							22×30	0.39	22×25	0.70
								25×25	0.40		
68	680							22×35	0.45		
								25×30	0.46		
82	820							22×40	0.51	22×30	0.83
								30×25	0.53		
100	101					22×25	0.45	25×35	0.57	22×35	0.93
								30×30	0.61		
								35×25	0.65		
120								22×50	0.64	22×40	1.04
								25×40	0.63		
150	151					22×30	0.58	25×50	0.75	22×50	1.19
						25×25	0.58	30×35	0.77		
								35×30	0.83		
180	181	22×25	0.65	22×25	0.65	22×35	0.65	30×40	0.87		
								35×35	0.93		
220	221			22×30	0.75	22×40	0.75	30×50	1.0	25×50	1.55
				25×25	0.75	25×30	0.73	35×40	1.1		
						30×25	0.77				
270	271	22×30	0.83	22×35	0.86	25×35	0.83			30×45	1.78
		25×25	0.82			30×30	0.88				
						35×25	0.93				
330	331	22×35	0.94	25×30	0.96	22×50	0.96			35×45	2.01
		22×40	1.24	30×25	1.0	25×40	0.95				
390	391	25×30	1.0	22×40	1.1	30×35	1.1	35×50	1.3	35×50	2.24
		22×40	1.1	25×35	1.1	35×30	1.2				
		30×25	1.1	35×25	1.2						
470	471	25×35	1.2	22×50	1.2	25×50	1.2			35×50	2.53
		35×25	1.3	25×40	1.2	30×40	1.2				
				30×30	1.2	35×35	1.3				
560	561	22×50	1.3	30×35	1.4	30×50	1.4				
		25×40	1.3	35×30	1.5	35×40	1.5				
		30×30	1.3								
680	681	25×50	1.5	25×50	1.5						
		35×30	1.6	30×40	1.6						
820	821	25×50	1.7	35×35	1.8	35×50	1.9				
		30×40	1.7								
		35×35	1.8								
1000	102	30×50	2.1	30×50	2.0						
		35×40	2.0	35×40	2.1						
1200	122			35×50	2.4						
1500	152	35×50	2.6								

U_R— 额定工作电压

U_S— 浪涌电压

— 额定纹波电流 Rated ripple current (Arms +105°C, 120Hz)

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