

ZH 系列 Series

特点 Features

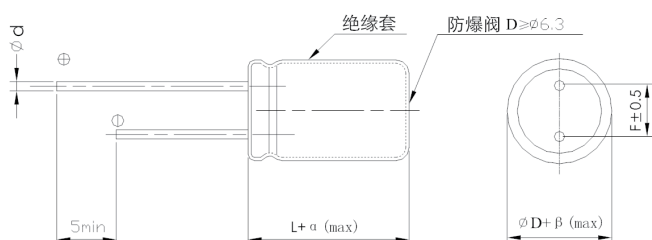
- 低阻抗, 9 mm高度, 105°C 2000-4000小时。
Low impedance, with 9mm height, 105°C 2000-4000hours.
- 符合RoHS标准。
Adapted to the RoHS directive.



主要技术性能 Specifications

项目 Items	特性 Performance Characteristics																								
使用温度范围 Operating Temperature Range	-55~+105°C																								
额定电压范围 Rated Voltage Range	6.3~100 V																								
标称容量范围 Nominal Capacitance Range	4.7~1000μF																								
标称容量允许偏差 Capacitance Tolerance	± 20% (120Hz, +20°C)																								
漏电流 Leakage Current	I ≤ 0.01CV or 3(μA) 2分钟(at 20°C, after 2 minutes) 取较大者 (whichever is greater)																								
损耗角正切值 (tgδ) Dissipation Factor (+20°C, 120Hz)	<table border="1"> <tr> <td>U_R (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50-100</td> </tr> <tr> <td>tgδ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50-100	tgδ	0.22	0.19	0.16	0.14	0.12	0.10										
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温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>U_R (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>100</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	100	Z-25°C / Z+20°C	4	3	2	2	2	2	2	Z-40°C / Z+20°C	8	6	4	3	3	3	3
U _R (V)	6.3	10	16	25	35	50	100																		
Z-25°C / Z+20°C	4	3	2	2	2	2	2																		
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耐久性 Load Life	<table border="1"> <tr> <td>D</td> <td>5-6.3</td> <td>8</td> <td>10</td> </tr> <tr> <td>Load life</td> <td>2000h</td> <td>3000h</td> <td>4000h</td> </tr> </table> <p>+105°C加额定电压, 恢复16小时后: After applying rated voltage at 105°C and then resumed for 16 hours: 电容变化率 Capacitance change: ±25%初始测量值以内 ±25% 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倍初始规定值数 ≤2times of the initial specified value</p>	D	5-6.3	8	10	Load life	2000h	3000h	4000h																
D	5-6.3	8	10																						
Load life	2000h	3000h	4000h																						
高温贮存 Shelf Life	<p>+105°C, 1000小时贮存后, 恢复16小时后: After storage for 1000 hours at +105°C then resumed for 16 hours: 电容变化率 Capacitance change: ±25%初始测量值以内 ±25% of the initial measured value 漏电流 Leakage current: ≤2倍初始规定值 ≤2times of the initial specified value 损耗角正切值 Dissipation factor: ≤2倍初始规定值数 ≤2times of the initial specified value</p>																								

外形图及尺寸表 Case Size Table



单位 Unit: mm

ØD	5	6.3	8	10
F	2.0	2.5	3.5	5.0
d	0.5			0.6
α(max)	1.5			
β(max)	0.5			

频率修正系数 Frequency Coefficient

Freq.(Hz)	120	1K	10K	100K
CAP(μF)				
~180	0.4	0.75	0.90	1
220~560	0.5	0.85	0.94	1
560~1000	0.6	0.87	0.95	1

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尺寸 Dimensions

CAP(μF) \ WV		6.3V(0J)			10V(1A)			16V(1C)		
		Size	ESR	Ripple	Size	ESR	Ripple	Size	ESR	Ripple
68	680							5×9	0.65	0.65
100	101	5×9	0.65	150	5×9	0.65	220	5×9	0.60	0.60
150	151	5×9	0.60	220	6.3×9	0.50	280	6.3×9	0.50	0.50
220	221	6.3×9	0.40	350	6.3×9	0.40	380	6.3×9	0.45	0.45
330	331	6.3×9	0.35	380	6.3×9	0.35	405			
470	471	6.3×9	0.25	405	8×9	0.30	550	8×9	0.40	0.40
		8×9	0.19	500				10×9	0.35	0.35
560	561	8×9	0.18	550	8×9	0.30	550	10×9	0.30	0.30
680	681	8×9	0.15	760	10×9	0.25	820			
		10×9	0.13	820						
820	821	10×9	0.12	850	10×9	0.20	970			
1000	102	10×9	0.11	970						

CAP(μF) \ WV		25V(1E)			35V(1V)			50V(1H)		
		Size	ESR	Ripple	Size	ESR	Ripple	Size	ESR	Ripple
15	150							5×9	0.55	100
22	220							5×9	0.55	120
33	330	5×9	0.65	120	5×9	0.55	120	6.3×9	0.40	150
47	470	5×9	0.60	150	5×9	0.55	150	6.3×9	0.35	150
68	680	5×9	0.50	150	6.3×9	0.50	350	8×9	0.30	500
100	101				8×9	0.45	550	8×9	0.25	550
150	151	6.3×9	0.35	380	8×9	0.40	550	10×9	0.20	760
220	221	8×9	0.25	550	10×9	0.35	820			
330	331	8×9	0.20	610						
470	471	10×9	0.15	970						

CAP(μF) \ WV		63V(1J)			100V(2A)		
		Size	ESR	Ripple	Size	ESR	Ripple
4.7	4R7				5×9	2.5	80
6.8	6R8				5×9	2.5	90
10	100	5×9	1.7	100	6.3×9	1.7	105
15	150	5×9	1.7	120	6.3×9	1.7	120
22	220	5×9	1.2	150	8×9	1.2	300
33	330	6.3×9	0.55	220	8×9	1.0	322
47	470	6.3×9	0.55	300	10×9	0.55	455
68	680	8×9	0.25	500			
100	101	10×9	0.20	760			

Size φD×L(mm)

Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz

Maximum ESR (Ω) at 20°C 100KHz