

特点 Features

保证105°C 2000小时: Endurance 2000h at 105°C

额定电压范围: 6.3~100V。Rated Voltage Range:6.3~100V

宽温度品: Wide temperature Type

长寿命: Long Life

满足RoHS: RoHS Compliant



主要技术性能 Specifications

项目 Items	特性 Performance Characteristics																															
类别温度范围 Category Temperature Range	-40°C ~ +105°C																															
额定电压范围 Rated Voltage(U _R)	6.3 ~100V																															
标称容量范围 Nominal Capacitance Range(C _R)	0.1 ~ 2200μF	120Hz, +20°C																														
标称容量允许偏差 Allowed Capacitance Tolerance(G _r)	± 20%(M)	120Hz, +20°C																														
漏电流 Leakage Current(L)	≤0.01C _R U _R 或者 3μA 取较大值 (Whichever is greater)																															
损耗角正切值 Tangent of loss angle(Tanδ)	<table border="1"> <tr> <td>U_R</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>Tanδ</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> </tr> </table>	U _R	6.3	10	16	25	35	50	63	80	100	Tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10	0.10	Max. 120Hz,+20°C										
U _R	6.3	10	16	25	35	50	63	80	100																							
Tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10	0.10																							
低温特性 Characteristics at Low Temperature	<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>63</td> <td>80</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> <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>4</td> <td>3</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	63	80	100	Z (-25°C) / Z (+20°C)	4	3	2	2	2	2	2	2	2	Z (-40°C) / Z (+20°C)	8	6	4	4	3	3	3	3	3	Max. 120Hz
U _R (V)	6.3	10	16	25	35	50	63	80	100																							
Z (-25°C) / Z (+20°C)	4	3	2	2	2	2	2	2	2																							
Z (-40°C) / Z (+20°C)	8	6	4	4	3	3	3	3	3																							
耐久性 Load life	+105°C, 连续施加额定电压 2 000 小时, 恢复 16 小时后: After applying rated voltage for 2 000 hours at 105°C and then recovery 16 hours:																															
	容量变化率 Capacitance change	± 20%初始值以内 Within ±20% of initial value																														
	损耗角正切值 Tanδ	≤ 200%初始规定值 Not more than 200% of specified value																														
	漏电流 Leakage current	≤ 初始规定值 Not more than specified value																														
高温贮存 Shelf life	+105°C贮存 1 000 小时后, 恢复 16 小时后: After storage for 1 000 hours at +105 °C and then recovery 16 hours																															
	容量变化率 Capacitance change	± 20%初始值以内 Within ±20% of initial value																														
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	漏电流 Leakage current	≤ 初始规定值 Not more than specified value																														
耐焊接热 Resistance to Soldering Heat	在 250°C的条件下, 电容器在热板上保持 30 秒, 然后从热板上取出电容器, 让其在室温下恢复, 电容器应满足以下要求: The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement.																															
	容量变化率 Capacitance change	± 10%初始值以内 Within ±10% of initial value																														
	损耗角正切值 Tanδ	≤初始规定值 Not more than specified value																														
	漏电流 Leakage current	≤初始规定值 Not more than specified value																														

尺寸图 Dimensional drawings

Fig.1

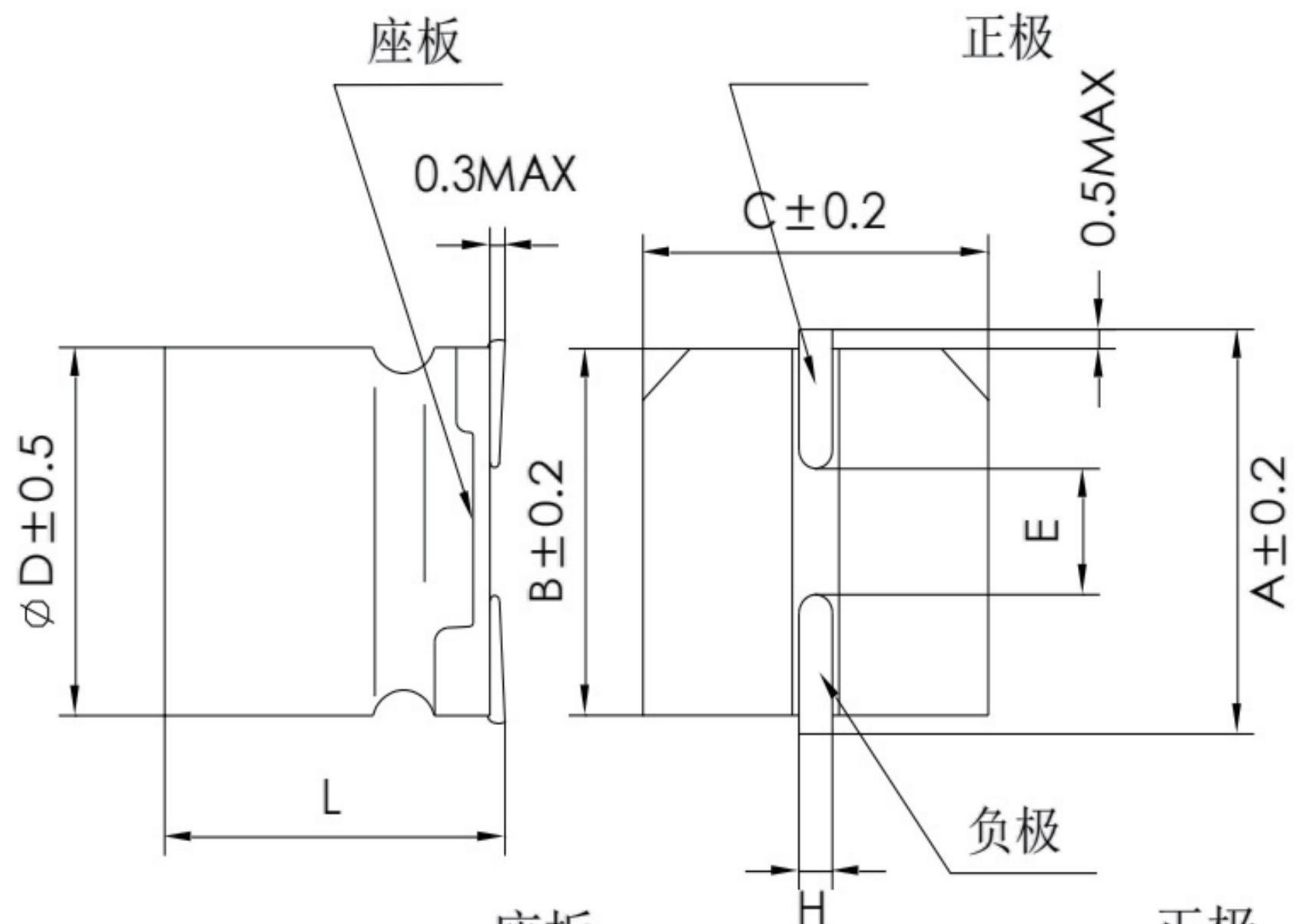
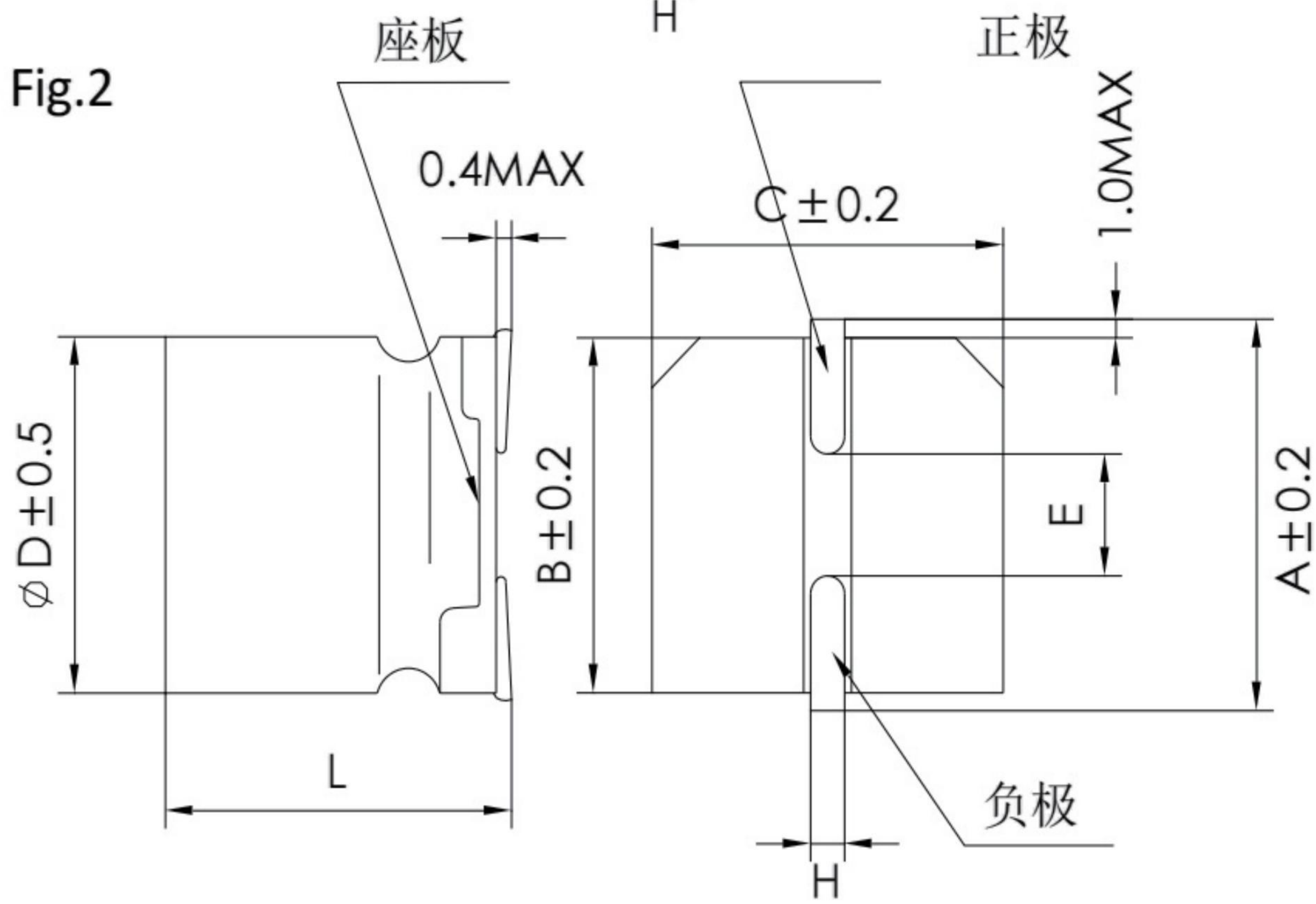


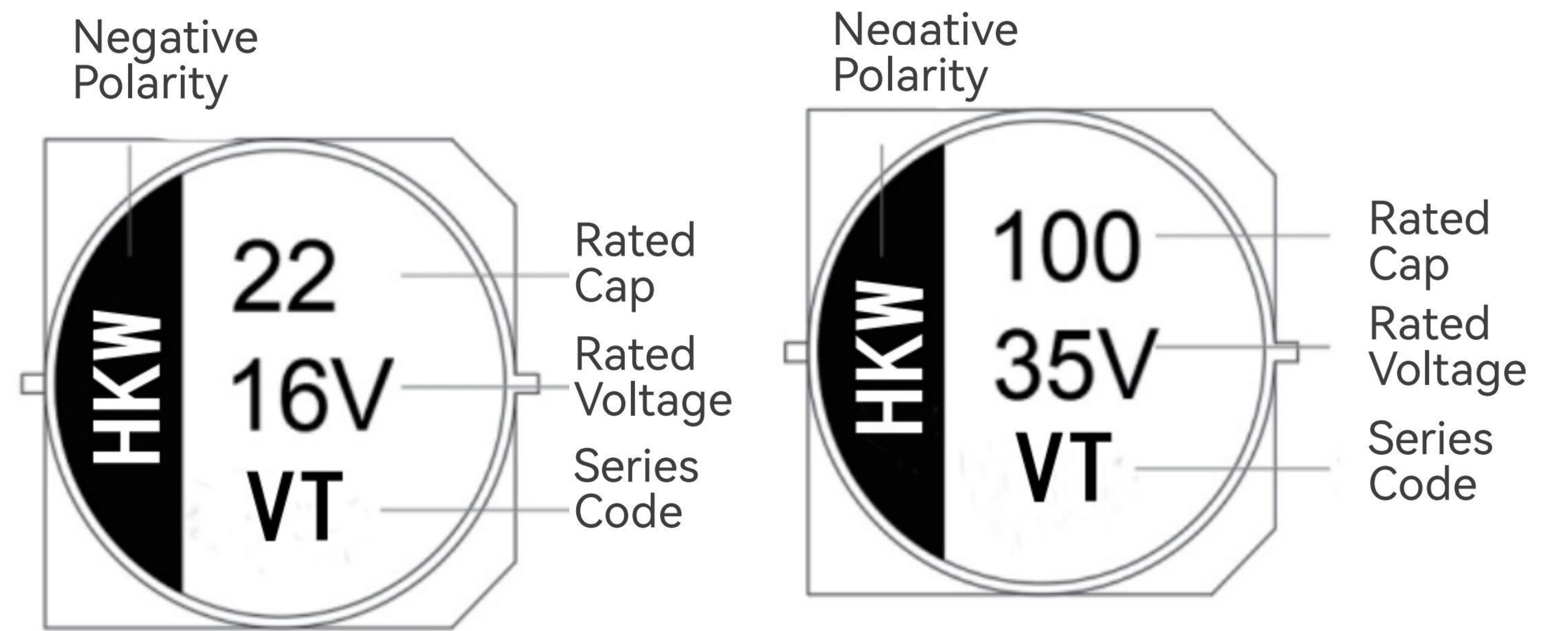
Fig.2



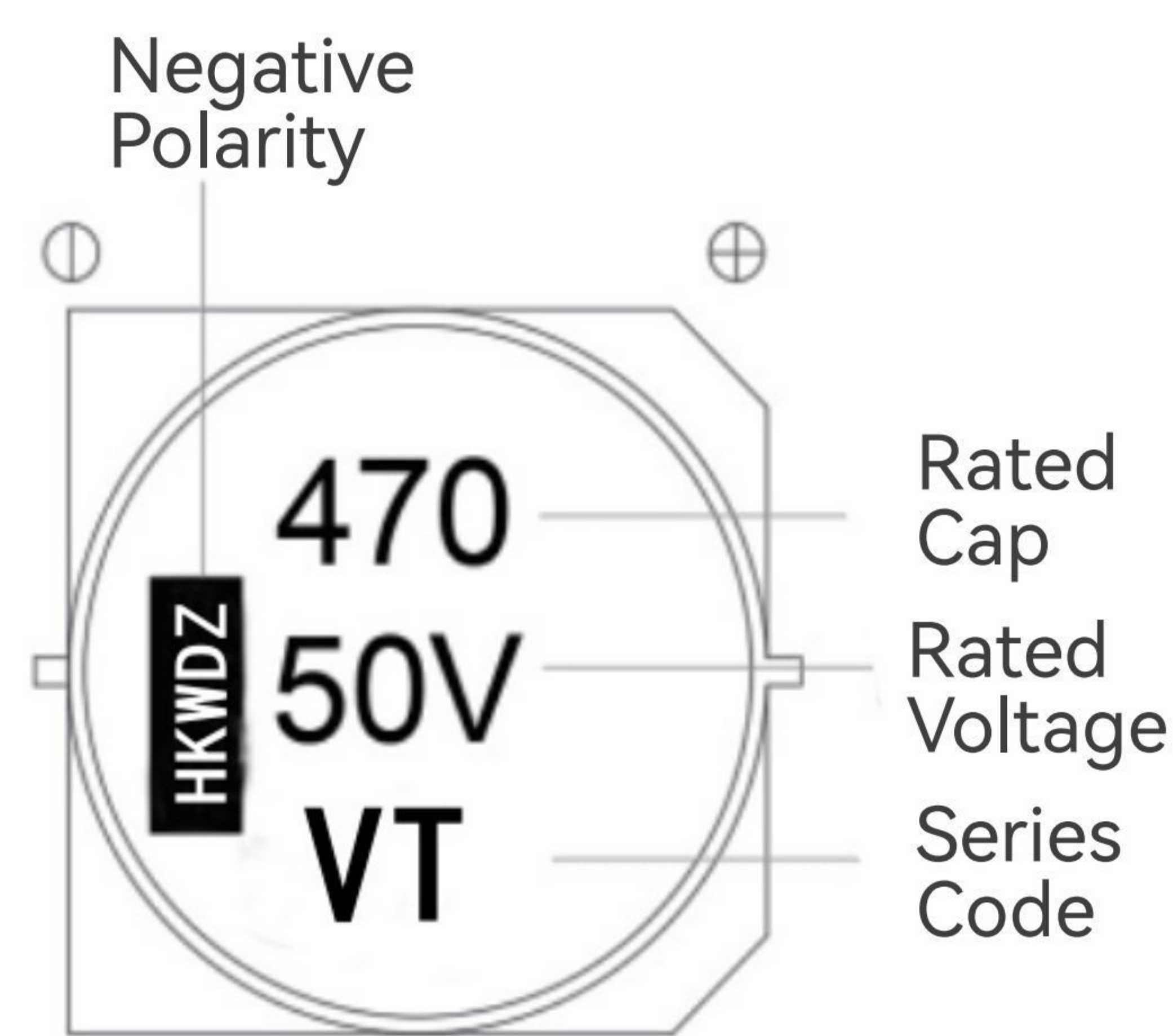
Marking

$\phi D=4\sim 5\text{mm}$

$\phi D=6.3\sim 10.2\text{mm}$



$\phi D=12.5\text{mm}$



尺寸表 size table

单位 Unit: mm

ϕD	L	A	B	C	$E \pm 0.2$	H	Fig.No.
4	5.4 ± 0.2	5.0	4.3	4.3	1.0	0.5 ~ 0.8	1
4	5.8 ± 0.3	5.0	4.3	4.3	1.0		
5	5.4 ± 0.2	6.0	5.3	5.3	1.3		
5	5.8 ± 0.3	6.0	5.3	5.3	1.3		
6.3	5.4 ± 0.2	7.3	6.6	6.6	2.2		
6.3	5.8 ± 0.3	7.3	6.6	6.6	2.2		
6.3	7.7 ± 0.3	7.3	6.6	6.6	2.2	0.8 ~ 1.1	2
8	6.5 ± 0.5	8.9	8.3	8.3	2.3		
8	10.5 ± 0.5	9.0	8.3	8.3	3.1		
10	10.5 ± 0.5	11.0	10.3	10.3	4.5		
10	12.5 ± 0.5	11.0	10.3	10.3	4.5	1.1 ~ 1.4	2
12.5	13.5 ± 0.5	13.6	13	13	4.5		
12.5	16 ± 0.5	13.6	13	13	4.5		

规格特性表 Table of specifications and characteristics

CAP(μF)	U _R (V)	6.3V		10V		16V		25V		35V	
		Φ DxL mm*mm	I _{ACR} 120Hz 105°C mA	Φ DxL mm*mm	I _{ACR} 120Hz 105°C mA	Φ DxL mm*mm	I _{ACR} 120Hz 105°C mA	Φ DxL mm*mm	I _{ACR} 120Hz 105°C mA	Φ DxL mm*mm	I _{ACR} 120Hz 105°C mA
4.7										4*5.4	22
10						4*5.4	28	4*5.4	27	5*5.4	30
22		4*5.4	29	4*5.4	21	5*5.4	39	5*5.4	44	5*5.8	35
33		4*5.4	26	5*5.4	34	5*5.4	35	6.3*5.4	65	6.3*5.4	62
47		5*5.4	46	5*5.4	36	5*5.4	44	6.3*5.4	70	6.3*5.4	72
100		6.3*5.4	71	5*5.4	48	6.3*5.4	70	6.3*5.4	100	6.3*7.7	85
220		6.3*5.4	86	6.3*5.4	80	6.3*5.4	120	8*10.5	320	8*10.5	290
330		6.3*7.7	123	6.3*7.7	110	6.3*7.7	170	8*10.5	450	10*10.5	450
470		6.3*7.7	140	6.3*7.7	140	8*10.5	340	10*10.5	490	10*10.5	550
680				10*10.5	390	10*10.5	410	10*12.5	520		
1000		8*10.5	340	10*10.5	450	10*10.5	550	12.5*13.5	650		
1500				10*12.5	480						
2200		10*12.5	520	12.5*13.5	820	12.5*13.5	600				

CAP(μF)	U _R (V)	50V		63V		80V		100V	
		Φ DxL mm*mm	I _{ACR} 120Hz 105°C mA	Φ DxL mm*mm	I _{ACR} 120Hz 105°C mA	Φ DxL mm*mm	I _{ACR} 120Hz 105°C mA	Φ DxL mm*mm	I _{ACR} 120Hz 105°C mA
0.1		4*5.4	2.3						
0.22		4*5.4	3.4						
0.33		4*5.4	4.1						
0.47		4*5.4	5.0						
1		4*5.4	10						
2.2		4*5.4	16						
3.3		4*5.4	16						
4.7		5*5.4	23	5*5.4	17				
10		6.3*5.4	32	6.3*5.4	22	6.3*7.7	38	6.3*5.4	46
22		6.3*5.4	36	6.3*7.7	58	8*10.5	60	8*10.5	100
33		6.3*7.7	70						
47		6.3*7.7	80	8*10.5	170	10*10.5	120	10*10.5	155
100		8*10.5	230	10*10.5	310	12.5*13.5	230	12.5*13.5	230
220		10*10.5	375	12.5*13.5	440				
330		12.5*13.5	650						

额定纹波电流频率修正系数 Frequency correction factor for ripple current

Frequency (Hz)	50	120	300	1K	≥ 10K
Coefficient (kf)	0.70	1.00	1.17	1.36	1.50