

VE

特点 Features

- 保证105°C 2000~5000小时。Endurance 2000~5000h at 105°C.
- 额定电压范围：6.3~50V。Rated Voltage Range:6.3~50V.
- 小型化、长寿命品。Miniaturized ,Long life Type.
- 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	-55°C ~ +105°C																						
额定电压范围 Rated Voltage(U _R)	6.3 ~ 50V																						
标称容量范围 Nominal Capacitance Range(C _R)	10 ~ 1500μF	120Hz, +20°C																					
标称容量允许偏差 Allowed Capacitance Tolerance(C _T)	±20%(M)	120Hz, +20°C																					
漏电流 Leakage Current(I _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(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tanδ</td> <td>0.26</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	Tanδ	0.26	0.20	0.16	0.14	0.12	0.12	Max. 120Hz, +20°C							
U _R (V)	6.3	10	16	25	35	50																	
Tanδ	0.26	0.20	0.16	0.14	0.12	0.12																	
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> </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> </tr> <tr> <td>Z_{-55°C} / Z_{+20°C}</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	Z _{-25°C} / Z _{+20°C}	4	3	2	2	2	2	Z _{-55°C} / Z _{+20°C}	8	5	4	3	3	3	Max. 120Hz
U _R (V)	6.3	10	16	25	35	50																	
Z _{-25°C} / Z _{+20°C}	4	3	2	2	2	2																	
Z _{-55°C} / Z _{+20°C}	8	5	4	3	3	3																	
耐久性 Load Life	+105°C施加额定电压5000小时后 (φD=4, 5和6.3为2000小时) , 恢复16小时后 : After 5000 hours (2000 hours for φD = 4, 5 and 6.3) . application of rated voltage at 105°Cand then recovery 16 hours:																						
	容量变化率 Capacitance change	±30%初始值以内 Within ±30% of initial value																					
	损耗角正切值 Tanδ	≤ 300%初始规定值 Not more than 300% of specified value																					
高温贮存 Shelf Life	+105°C,1000小时贮存后,恢复16小时后 : After storage for 1000 hours at +105°C and then recovery 16 hours:																						
	容量变化率 Capacitance change	±30%初始值以内 Within ±30% of initial value																					
	损耗角正切值 Tanδ	≤ 300%初始规定值 Not more than 300% of 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																						

ALUMINIUM ELECTROLYTIC CAPACITORS

SMD

MINIATURE

BI-POLAR

STANDARD

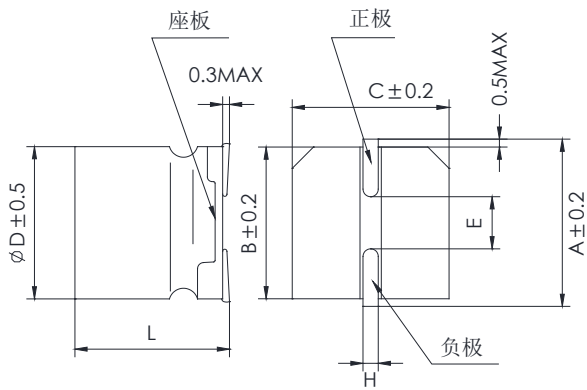
LOW-ESR

HIGH RELIABILITY

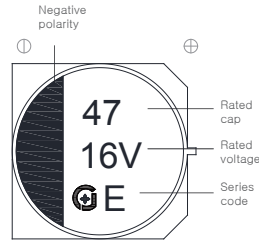
SNAP-IN

SCREW

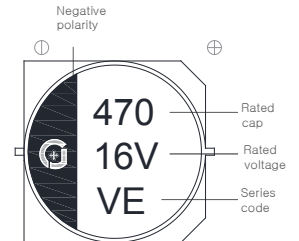
尺寸图 Dimensional drawings



Marking
∅D=4~5mm



∅D=6.3~10.2mm



尺寸表 Size table

单位 Unit: mm

∅D	L	A	B	C	E±0.2	H
4	5.8±0.3	5.0	4.3	4.3	1.0	0.5~0.8
5	5.8±0.3	6.0	5.3	5.3	1.3	
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
8	10.5±0.5	9.0	8.3	8.3	3.1	
8.2	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	
10.2	10.5±0.5	11.0	10.3	10.3	4.5	

规格特性表

Table of specifications and characteristics

U _R (V) C _R (μF)	6.3V			10V			16V			25V			35V			50V		
	∅DxL mm*mm	I _{AC,R} 100KHz 105°C mA	ESR _{max} 100KHz 25°C Ω	∅DxL mm*mm	I _{AC,R} 100KHz 105°C mA	ESR _{max} 100KHz 25°C Ω	∅DxL mm*mm	I _{AC,R} 100KHz 105°C mA	ESR _{max} 100KHz 25°C Ω	∅DxL mm*mm	I _{AC,R} 100KHz 105°C mA	ESR _{max} 100KHz 25°C Ω	∅DxL mm*mm	I _{AC,R} 100KHz 105°C mA	ESR _{max} 100KHz 25°C Ω	∅DxL mm*mm	I _{AC,R} 100KHz 105°C mA	ESR _{max} 100KHz 25°C Ω
4.7																4*5.8	85	2.3
10									4*5.8	140	1.0	4*5.8	140	1.0	5*5.8	165	0.88	
22							4*5.8	140	1.0	5*5.8	230	0.38	5*5.8	230	0.38	6.3*5.8	195	0.68
47	4*5.8	140	1.0	4*5.8	140	1.0	5*5.8	230	0.38	6.3*5.8	280	0.3	6.3*5.8	280	0.3	6.3*7.7	350	0.34
100	5*5.8	230	0.38	5*5.8	230	0.38	6.3*5.8	280	0.3	6.3*7.7	560	0.18	6.3*7.7	560	0.18	8*10.5	670	0.18
220	6.3*5.8	280	0.3	6.3*7.7	560	0.18	6.3*7.7	560	0.18	8*10.5	850	0.085	8*10.5	850	0.085	10*10.5	900	0.12
330	6.3*7.7	560	0.18										10*10.5	1190	0.065	10.2*10.5	900	0.12
470	8*10.5	850	0.085	8*10.5	850	0.085	8*10.5	850	0.085	8.2*10.5	850	0.085						
1000	10*10.5	1190	0.065	10*10.5	1190	0.065	10*10.5	1190	0.065									
1500	10.2*10.5	1190	0.065															

额定纹波电流频率修正系数

Frequency correction factor for ripple current

Frequency(Hz)	120	1K	10K	100K
C _R (μF)				
4.7-150	0.40	0.75	0.90	1.0
220-560	0.50	0.85	0.94	1.0
680-1500	0.60	0.87	0.95	1.0