

VF

特点 Features

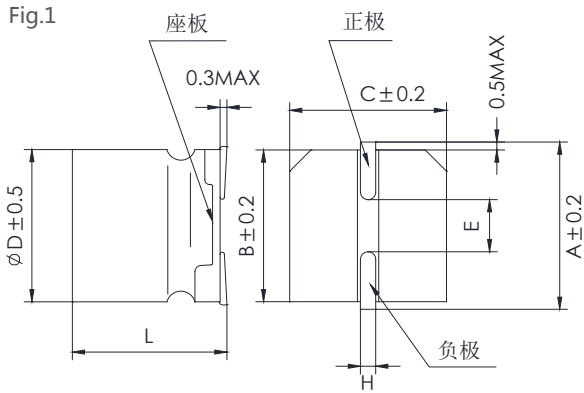
- 保证105°C 5000~8000小时。Endurance 5000~8000h at 105°C.
- 额定电压范围：6.3~50V。Rated Voltage Range:6.3~50V.
- 超长寿命品。Super Long life Type.
- 满足RoHS。RoHS Compliant.



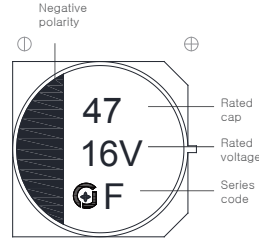
主要技术性能 Specifications

项目 Items	特性 Performance Characteristics																						
类别温度范围 Category Temperature Range	-40~+105°C																						
额定电压范围 Rated Voltage(U _R)	6.3 ~ 50V																						
标称电容容量范围 Nominal Capacitance Range(C _R)	4.7 ~ 2200µF	120Hz, +20°C																					
标称电容容量允许偏差 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"> <thead> <tr> <th>U_R (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Φ5-10</td> <td>0.32</td> <td>0.28</td> <td>0.26</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> </tr> <tr> <td>Φ≥12.5</td> <td>0.30</td> <td>0.26</td> <td>0.22</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </tbody> </table>	U _R (V)	6.3	10	16	25	35	50	Φ5-10	0.32	0.28	0.26	0.16	0.14	0.14	Φ≥12.5	0.30	0.26	0.22	0.16	0.14	0.12	Max. 120Hz, +20°C
U _R (V)	6.3	10	16	25	35	50																	
Φ5-10	0.32	0.28	0.26	0.16	0.14	0.14																	
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低温特性 Characteristics at Low Temperature	<table border="1"> <thead> <tr> <th>U_R (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z_{40°C} / Z_{+20°C}</td> <td>7</td> <td>5</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	U _R (V)	6.3	10	16	25	35	50	Z _{40°C} / Z _{+20°C}	7	5	4	4	3	3	Max. 120Hz							
U _R (V)	6.3	10	16	25	35	50																	
Z _{40°C} / Z _{+20°C}	7	5	4	4	3	3																	
耐久性 Load Life	+105°C, 连续施加额定电压5000~8000小时, 恢复16小时后: After applying rated voltage for 5000~8000 hours at 105°C and then recovery 16 hours:																						
	规定时间 Specified time	Φ5 & Φ6.3 : 5000小时 ≥Φ8 : 8000小时																					
	电容量变化率 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:																						
	电容量变化率 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.																						
	电容量变化率 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																					

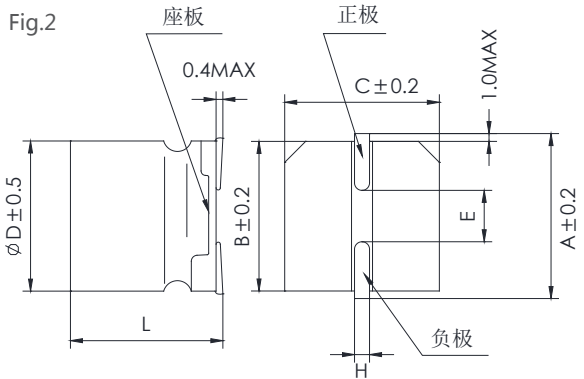
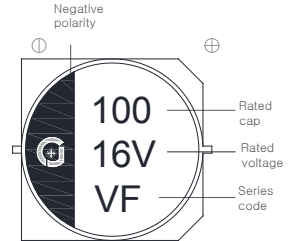
尺寸图 Dimensional drawings



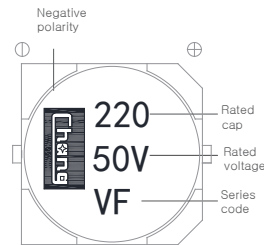
Marking
 $\phi D=5\text{mm}$



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



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



尺寸表 Size table

单位 Unit: mm

ϕD	L	A	B	C	$E \pm 0.2$	H	Fig.No.
5	5.8 ± 0.3	6.0	5.3	5.3	1.3	0.5 ~ 0.8	1
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		
8	10.5 ± 0.5	9.0	8.3	8.3	3.1	0.8 ~ 1.1	
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		
12.5	13.5 ± 0.5	13.6	13	13	4.5	1.1 ~ 1.4	2
12.5	16 ± 0.5	13.6	13	13	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	
	ΦDxL mm*mm	I _{AC,R} 120Hz 105°C mA	ΦDxL mm*mm	I _{AC,R} 120Hz 105°C mA	ΦDxL mm*mm	I _{AC,R} 120Hz 105°C mA	ΦDxL mm*mm	I _{AC,R} 120Hz 105°C mA	ΦDxL mm*mm	I _{AC,R} 120Hz 105°C mA	ΦDxL mm*mm	I _{AC,R} 120Hz 105°C mA
4.7									5*5.8	19		
10							5*5.8	28	6.3*5.8	30		
22					5*5.8	30					6.3*7.7	42
33			5*5.8	35	6.3*5.8	48	6.3*5.8	48	6.3*7.7	40		
47	5*5.8	36	6.3*5.8	55	6.3*7.7	50	6.3*7.7	63			8*10.5	92
100	6.3*5.8	60	6.3*7.7	63	8*10.5	130	8*10.5	116	8*10.5	100	10*10.5	152
220	6.3*7.7	88	8*10.5	150	10*10.5	230	10*10.5	210	10*10.5	190		
330							12.5*13.5	410	12.5*13.5	390	12.5*13.5	340
470	8*10.5	170	10*10.5	280	12.5*13.5	430						
1000	10*10.5	320	12.5*13.5	450								
2200	12.5*13.5	480										

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

Frequency(Hz) C _r (μF)	120	1K	10K	100K
4.7-10	1.00	1.30	1.40	1.50
22-2200	1.00	1.05	1.08	1.08