

VX

特点 Features

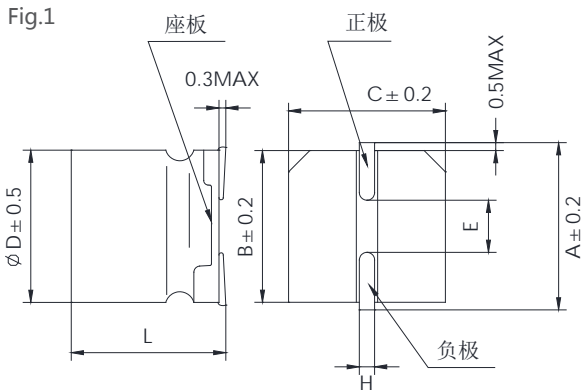
- 保证105°C 7000~15000小时。Endurance 7000~15000h at 105°C.
- 额定电压范围：6.3~50V。Rated Voltage Range:6.3~50V.
- 低阻抗、超长寿命品。Low ESR, Super Long life Type.
- 满足RoHS。RoHS Compliant.



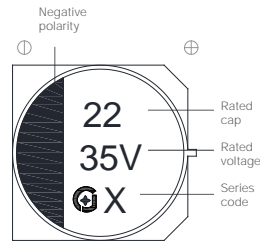
主要技术性能 Specifications

项目 Items	特性 Performance Characteristics															
类别温度范围 Category Temperature Range	-25°C ~ +105°C															
额定电压范围 Rated Voltage(UR)	6.3 ~ 50V															
标称电容范围 Nominal Capacitance Range(C _R)	10 ~ 2200μF	120Hz, +20°C														
标称电容允许偏差 Allowed Capacitance Tolerance(C _v)	±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>0.32</td> <td>0.28</td> <td>0.26</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	Tanδ	0.32	0.28	0.26	0.16	0.14	0.14	Max. 120Hz, +20°C
U _R (V)	6.3	10	16	25	35	50										
Tanδ	0.32	0.28	0.26	0.16	0.14	0.14										
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_{10°C} / Z_{+20°C}</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	Z _{10°C} / Z _{+20°C}	4	3	2	2	2	2	Max. 120Hz
U _R (V)	6.3	10	16	25	35	50										
Z _{10°C} / Z _{+20°C}	4	3	2	2	2	2										
耐久性 Load Life	+105°C, 连续施加额定电压7000~15000小时, 恢复16小时后: After applying rated voltage for 7000~15000 hours at 105°C and then recovery 16 hours:															
	规定时间 Specified time	Φ5-Φ6.3:7000小时 Φ8~Φ12.5:10000小时 Φ16~Φ18: 15000小时														
	电容变化率 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														
	漏电流 Leakage current	≤ 初始规定值 Not more than 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														
	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.															
	电容变化率 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														

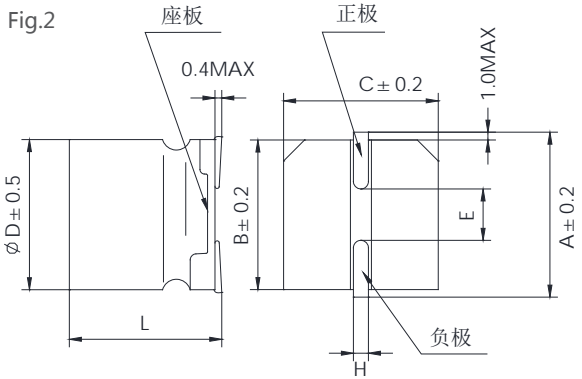
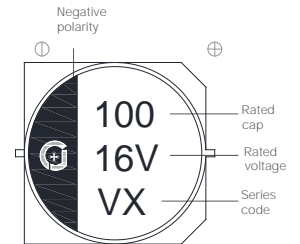
尺寸图 Dimensional drawings



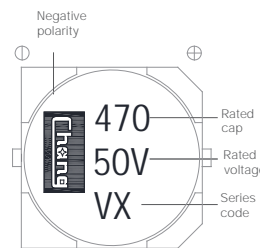
Marking
 $\varnothing D=5\text{mm}$



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



$\varnothing D=12.5\sim 18\text{mm}$



尺寸表 Size table

单位 Unit: mm

$\varnothing D$	L	A	B	C	$E \pm 0.2$	H	Fig.No.
5	7.0 ± 0.3	6.0	5.3	5.3	1.3	0.5~0.8	1
6.3	7.0 ± 0.3	7.3	6.6	6.6	2.2		
6.3	8.7 ± 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		
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		
16	16.5 ± 0.5	18.0	17	17	6.4		
16	21.5 ± 0.5	18.0	17	17	6.4		
18	16.5 ± 0.5	20.0	19	19	6.4		
18	21.5 ± 0.5	20.0	19	19	6.4		

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 _{ACR} 100KHz 105°C mA	ESR _{max} 100KHz 25°C Ω	ΦDxL mm*mm	I _{ACR} 100KHz 105°C mA	ESR _{max} 100KHz 25°C Ω	ΦDxL mm*mm	I _{ACR} 100KHz 105°C mA	ESR _{max} 100KHz 25°C Ω	ΦDxL mm*mm	I _{ACR} 100KHz 105°C mA	ESR _{max} 100KHz 25°C Ω	ΦDxL mm*mm	I _{ACR} 100KHz 105°C mA	ESR _{max} 100KHz 25°C Ω	ΦDxL mm*mm	I _{ACR} 100KHz 105°C mA	ESR _{max} 100KHz 25°C Ω
10													5*7.0	95	2.2			
22							5*7.0	95	2.2	5*7.0	95	2.2	6.3*7.0	140	1.1			
33				5*7.0	95	2.2							6.3*8.7	230	1.0			
47	5*7.0	95	2.2				6.3*7.0	140	1.1	6.3*7.0	140	1.1				8*10.5	350	0.53
100	6.3*7.0	140	1.1							6.3*8.7	230	1.0	8*10.5	600	0.22	10*10.5	670	0.35
150				6.3*7.0	140	1.1										12.5*13.5	850	0.25
220				6.3*8.7	230	1.0	6.3*8.7	230	1.0	8*10.5	600	0.22	10*10.5	850	0.16	16*16.5	1090	0.20
330	6.3*8.7	230	1.0	8*10.5	600	0.22	8*10.5	600	0.22	10*10.5	850	0.16	12.5*13.5	1090	0.10	18*16.5	1190	0.15
470	8*10.5	600	0.22				10*10.5	850	0.16	12.5*13.5	1090	0.10	16*16.5	1500	0.08			
560				10*10.5	850	0.16	12.5*13.5	1090	0.10	16*16.5	1500	0.08	18*16.5	1800	0.06			
680	10*10.5	850	0.16				16*16.5	1500	0.08	18*16.5	1800	0.06						
820				12.5*13.5	1090	0.10	18*16.5	1800	0.06									
1000	12.5*13.5	1090	0.10															
1200				16*16.5	1500	0.08												
1500	16*16.5	1500	0.08	18*16.5	1800	0.06												
2200	18*16.5	1800	0.06															

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

C _R (μF)	Frequency(Hz)			
	120	1K	10K	100K
10-150	0.40	0.75	0.90	1.00
220-2200	0.50	0.85	0.94	1.00