VXE

特点 Features

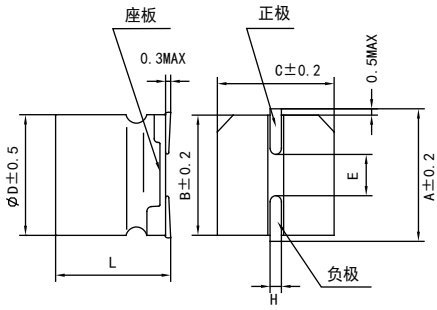
- 保证105℃ 3000~5000小时。Endurance 3000~5000h at 105℃.
- 额定电压范围：6.3~100V。Rated Voltage Range:6.3~100V.
- 宽温度、长寿命品。Wide temperature ,Long life Type.
- 满足RoHS。RoHS Compliant.
- 满足AEC-Q200认证。AEC-Q200 Compliant.

主要技术性能 Specifications

项目 Items	特性 Performance Characteristics	
类别温度范围 Category Temperature Range	-55~+105℃	
额定电压范围 Rated Voltage(U_R)	6.3 ~ 100V	
标称电容量范围 Nominal Capacitance Range(C_R)	4.7~ 3300μF	120Hz,+20℃
标称电容量允许偏差 Allowed Capacitance Tolerance(C_T)	±20%(M)	120Hz,+20℃
漏电流 Leakage Current(I_L)	≤0.01$C_R U_R$或者3μA取较大值（Whichever is greater）	+20℃ After 2 minutes
损耗角正切值 Tangent of loss angle(Tanδ)	U_R(V) 6.3 10 16 25 35 50 63 80 100 Tanδ 0.30 0.24 0.20 0.16 0.14 0.12 0.09 0.08 0.07	Max. 120Hz, +20℃
低温特性 Characteristics at Low Temperature	U_R (V) 6.3 10 16 25 35 50 63 80 100 $Z_{-25℃}$ / $Z_{+20℃}$ 4 3 2 2 2 2 2 3 2 $Z_{-55℃}$ / $Z_{+20℃}$ 10 7 5 3 3 3 3 3 3	Max. 120Hz
耐久性 Load Life	+105℃，连续施加额定电压5000小时（ΦD=4，5和6.3为3000小时），恢复16小时后： After applying rated voltage for 5000 hours (3000 hours for ΦD = 4，5and 6.3) at 105℃ and then recovery 16 hours:	
	电容量变化率 Capacitance Change	±30%初始值以内 Within ±30% of the 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℃，1000小时贮存后,恢复16小时后： After storage for 1000 hours at +105℃ and then recovery 16 hours:	
	电容量变化率 Capacitance Change	±30%初始值以内 Within ±30% of the 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℃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℃ 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 the 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

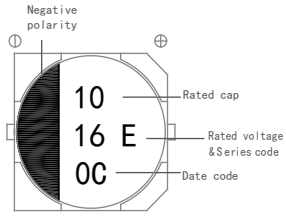
尺寸图 Dimensional drawings

Fig.1

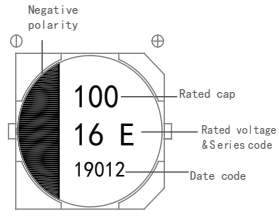


Marking

ΦD=4～5mm



ΦD=6.3mm



ΦD=8～10.2mm

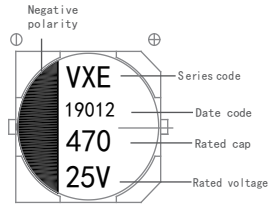
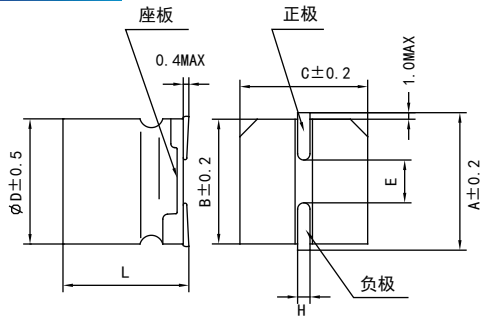
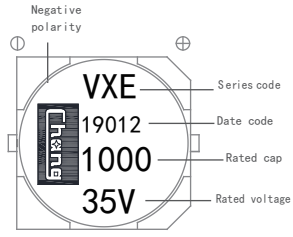


Fig.2



ΦD≥12.5mm



尺寸表 size table

单位 Unit: mm

ΦD	L	A	B	C	E±0.2	H	Fig.No.
4	5.8±0.3	5.0	4.3	4.3	1.0	0.5～0.8	1
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	6.3	6.3	2.2		
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	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	$I_{AC,R}$ 120Hz 105℃ mA	ΦDxL mm*mm	$I_{AC,R}$ 120Hz 105℃ mA	ΦDxL mm*mm	$I_{AC,R}$ 120Hz 105℃ mA	ΦDxL mm*mm	$I_{AC,R}$ 120Hz 105℃ mA	ΦDxL mm*mm	$I_{AC,R}$ 120Hz 105℃ mA	ΦDxL mm*mm	$I_{AC,R}$ 120Hz 105℃ mA
4.7							4*5.8	16	4*5.8	14	5*5.8	21
10					4*5.8	20	5*5.8	30	5*5.8	30	6.3*5.8	35
22	4*5.8	23	4*5.8	30	5*5.8	35	6.3*5.8	45	6.3*5.8	50	6.3*7.7	52
33	5*5.8	40	5*5.8	40	6.3*5.8	50	6.3*5.8	50	6.3*5.8	45	6.3*7.7	55
47	5*5.8	45	6.3*5.8	55	6.3*5.8	60	6.3*7.7	65	6.3*7.7	65	8*10.5	98
100	6.3*5.8	70	6.3*5.8	58	6.3*7.7	90	6.3*7.7	100	8*10.5	100	10*10.5	118
220	6.3*7.7	105	6.3*7.7	89	8*10.5	250	8*10.5	145	10*10.5	230	12.5*13.5	280
330	8*10.5	245	8*10.5	170	8*10.5	260	10*10.5	250	10*10.5	250	12.5*16	360
470	10*10.5	350	8*10.5	160	10*10.5	310	10*10.5	300	12.5*13.5	330	16*16.5	510
1000	10*10.5	350	10*10.5	310	12.5*13.5	450	12.5*13.5	330	16*16.5	700	18*16.5	780
2200					12.5*16	550	16*16.5	680	18*21.5	1080		
3300					16*21.5	880	18*21.5	1090				

U_R(V) / C_R (μF)	63V		80V		100V	
	ΦDxL mm*mm	$I_{AC,R}$ 120Hz 105℃ mA	ΦDxL mm*mm	$I_{AC,R}$ 120Hz 105℃ mA	ΦDxL mm*mm	$I_{AC,R}$ 120Hz 105℃ mA
1	4*5.8	8				
2.2	4*5.8	12				
3.3	4*5.8	17				
4.7	5*5.8	22				
10	6.3*7.7	45				
22	8*10.5	103				
33	8*10.5	100	8*10.5	55	10*10.5	88
47	10*10.5	175	10*10.5	88	12.5*13.5	165
100	12.5*13.5	290	12.5*13.5	165	12.5*16	220
220	12.5*16	370	16*16.5	270	16*16.5	270
330	16*16.5	405	18*16.5	370	18*16.5	370
470	18*16.5	468				

额定纹波电流的频率系数
Frequency coefficient of ripple current

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