

VXC

特点 Features

- 保证125°C 2000~5000小时。Endurance 2000~5000h at 125°C.
- 额定电压范围：10~50V。Rated Voltage Range:10~50V.
- 低阻抗，高温长寿命。Low ESR , High temperature, Long life Type.
- 满足RoHS。RoHS Compliant.
- 满足AEC-Q200认证。AEC-Q200 Compliant.

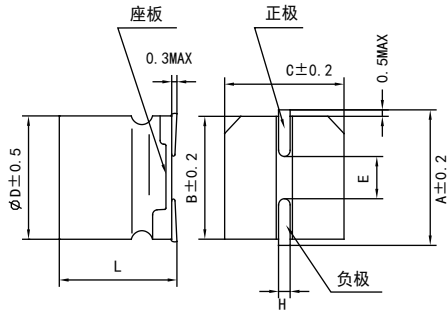


主要技术性能 Specifications

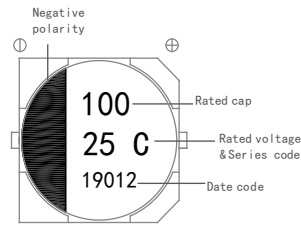
项目 Items	特性 Performance Characteristics						
类别温度范围 Category Temperature Range	-40°C ~ +125°C						
额定电压范围 Rated Voltage(U _R)	10 ~ 50V						
标称容量范围 Nominal Capacitance Range(C _n)	10 ~ 3300μF					120Hz, +20°C	
标称容量允许偏差 Allowed Capacitance Tolerance(C _T)	±20%(M)					120Hz, +20°C	
漏电流 Leakage Current(I _L)	Φ6.3~10: ≤0.01C _R U _R 或者3μA取较大值 (Whichever is greater) ≥Φ12.5: ≤0.03C _R U _R 或者4μA取较大值 (Whichever is greater)					+20°C After 2 minutes	
损耗角正切值 Tangent of loss angle(Tanδ)	U _R (V)	10	16	25	35	50	Max. 120Hz, +20°C
	Tanδ	0.30	0.23	0.18	0.16	0.16	
低温特性 Characteristics at Low Temperature	U _R (V)	10	16	25	35	50	Max. 120Hz
	Z _{-25°C} / Z _{+20°C}	6	5	4	3	3	
	Z _{-40°C} / Z _{+20°C}	12	8	6	4	4	
耐久性 Load Life	+125°C施加额定电压后，电容器应满足以下要求： Application of rated voltage at 125°C, the capacitor shall meet the following requirement:						
	规定时间 Specified time	Φ6.3: 2000小时 Φ8~Φ10: 3000小时 Φ12.5~Φ18: 4000小时					
	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	+125°C,1000小时贮存后,恢复16小时后: After storage for 1000 hours at +125°C 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 200% 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=6.3mm



ΦD=8~10mm

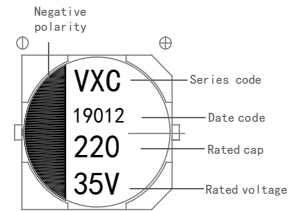
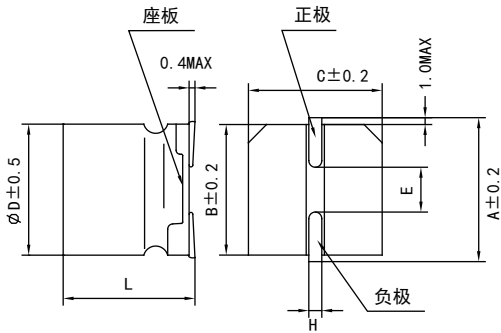
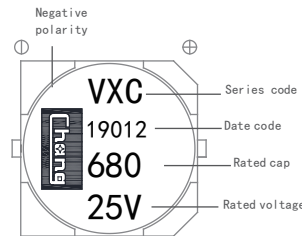


Fig.2



ΦD≥12.5mm



尺寸表 size table

单位 Unit: mm

ΦD	L	A	B	C	E±0.2	H	Fig.No.
6.3	5.8±0.3	7.3	6.6	6.6	2.2	0.5~0.8	1
6.3	7.7±0.3	7.3	6.3	6.3	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

C _R (μF)	U _R (V)	10V			16V			25V			35V			50V		
		ΦDxL mm*mm	I _{AC,R} 100KHz 125°C mA	ESR _{max} 100KHz 25°C Ω	ΦDxL mm*mm	I _{AC,R} 100KHz 125°C mA	ESR _{max} 100KHz 25°C Ω	ΦDxL mm*mm	I _{AC,R} 100KHz 125°C mA	ESR _{max} 100KHz 25°C Ω	ΦDxL mm*mm	I _{AC,R} 100KHz 125°C mA	ESR _{max} 100KHz 25°C Ω	ΦDxL mm*mm	I _{AC,R} 100KHz 125°C mA	ESR _{max} 100KHz 25°C Ω
10											6.3*5.8	110	0.7	6.3*5.8	51	0.8
22							6.3*5.8	110	0.7	6.3*5.8	110	0.7	6.3*7.7	83	0.7	
33				6.3*5.8	110	0.7	6.3*5.8	110	0.7	6.3*7.7	220	0.45	8*10.5	160	0.36	
47				6.3*5.8	110	0.7	6.3*7.7	220	0.45	6.3*7.7	220	0.45	8*10.5	160	0.36	
100				6.3*7.7	220	0.45	8*10.5	296	0.20	8*10.5	296	0.20	10*10.5	247	0.23	
220		8*10.5	296	0.20	8*10.5	296	0.20	10*10.5	440	0.16	10*10.5	440	0.16	12.5*13.5	600	0.23
330		8*10.5	296	0.20	10*10.5	440	0.16	10*10.5	440	0.16	12.5*13.5	850	0.092	12.5*16	700	0.15
470		10*10.5	440	0.16	10*10.5	440	0.16	12.5*13.5	850	0.092	16*16.5	820	0.10	16*16.5	730	0.15
680		12.5*13.5	750	0.12	12.5*13.5	750	0.12	16*16.5	820	0.10	18*21.5	1500	0.065	18*16.5	800	0.13
1000		12.5*16	820	0.10	12.5*16	820	0.10	18*21.5	1500	0.065	16*21.5	1200	0.068	18*21.5	980	0.11
1500		16*16.5	1000	0.08	16*16.5	1000	0.08									
2200		18*16.5	1300	0.075	18*21.5	1500	0.065									
3300		18*21.5	1500	0.065												

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)	0.35	0.50	0.64	0.83	1.00