

# VXA

## 特点 Features

- 保证105°C 2000小时。Endurance 2000h at 105°C.
- 额定电压范围：6.3~100V。Rated Voltage Range:6.3~100V.
- 标准品。Standard 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°C																															
额定电压范围 Rated Voltage(U <sub>R</sub> )	6.3 ~ 100V																															
标称电容容量范围 Nominal Capacitance Range(C <sub>R</sub> )	1 ~ 8200μF	120Hz, +20°C																														
标称电容容量允许偏差 Allowed Capacitance Tolerance(C <sub>T</sub> )	±20%(M)	120Hz, +20°C																														
漏电流 Leakage Current(I <sub>L</sub> )	Φ4~10: ≤0.01C <sub>R</sub> U <sub>R</sub> 或者3μA取较大值 (Whichever is greater) ≥Φ12.5: ≤0.03C <sub>R</sub> U <sub>R</sub> 或者4μA取较大值 (Whichever is greater)																															
损耗角正切值 Tangent of loss angle(Tanδ)	<table border="1"> <tr> <td>U<sub>R</sub>(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>Tanδ</td> <td>0.32</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.11</td> <td>0.10</td> </tr> </table>	U <sub>R</sub> (V)	6.3	10	16	25	35	50	63	80	100	Tanδ	0.32	0.24	0.20	0.16	0.14	0.12	0.12	0.11	0.10	Max. 120Hz, +20°C										
U <sub>R</sub> (V)	6.3	10	16	25	35	50	63	80	100																							
Tanδ	0.32	0.24	0.20	0.16	0.14	0.12	0.12	0.11	0.10																							
低温特性 Characteristics at Low Temperature	<table border="1"> <tr> <td>U<sub>R</sub> (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>Z<sub>-25°C</sub> / Z<sub>+20°C</sub></td> <td>4</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z<sub>-55°C</sub> / Z<sub>+20°C</sub></td> <td>12</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	U <sub>R</sub> (V)	6.3	10	16	25	35	50	63	80	100	Z <sub>-25°C</sub> / Z <sub>+20°C</sub>	4	4	3	2	2	2	2	3	3	Z <sub>-55°C</sub> / Z <sub>+20°C</sub>	12	8	6	4	3	3	3	3	3	Max. 120Hz
U <sub>R</sub> (V)	6.3	10	16	25	35	50	63	80	100																							
Z <sub>-25°C</sub> / Z <sub>+20°C</sub>	4	4	3	2	2	2	2	3	3																							
Z <sub>-55°C</sub> / Z <sub>+20°C</sub>	12	8	6	4	3	3	3	3	3																							
耐久性 Load Life	+105°C, 连续施加额定电压2000小时, 恢复16小时后: After applying rated voltage for 2000 hours at 105°C and then recovery 16 hours:																															
	电容量变化率 Capacitance Change	±20%初始值以内 Within ±20% of the initial value																														
	损耗角正切值 Tanδ	≤ 200%初始规定值 Not more than 200% 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	±20%初始值以内 Within ±20% of the initial value																														
	损耗角正切值 Tanδ	≤ 200%初始规定值 Not more than 200% 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 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

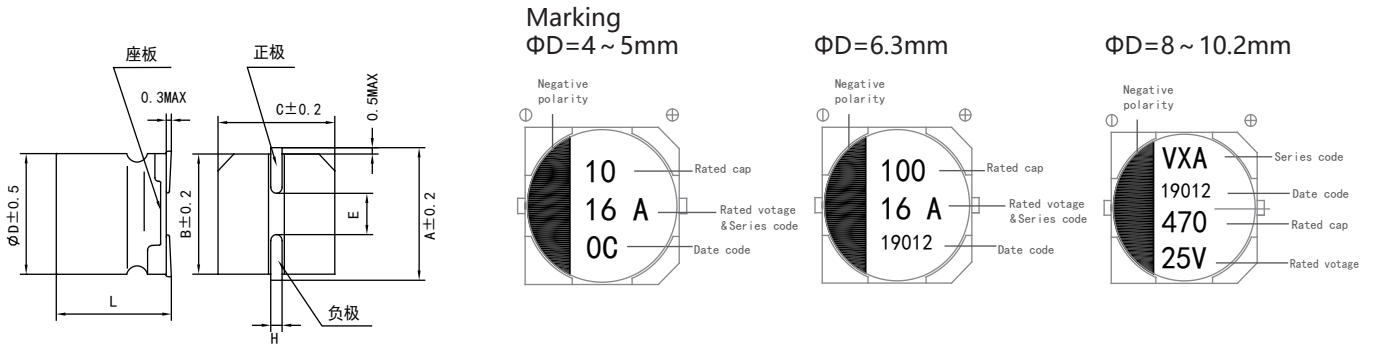
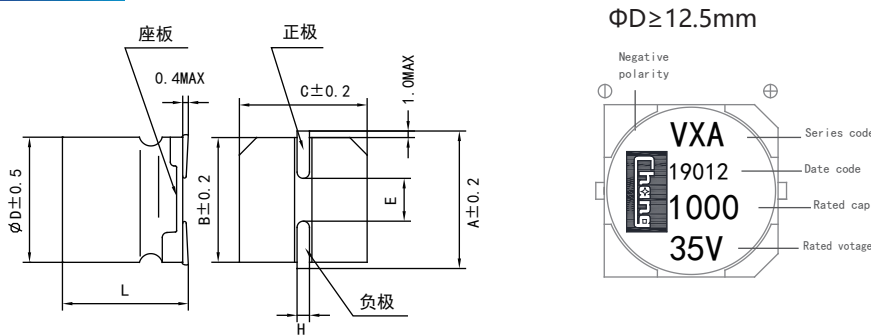


Fig.2



尺寸表 size table

单位 Unit: mm

$\phi D$	L	A	B	C	$E \pm 0.2$	H	Fig.No.
4	$5.8 \pm 0.3$	5.0	4.3	4.3	1.0	0.5 ~ 0.8	1
5	$5.8 \pm 0.3$	6.0	5.3	5.3	1.3		
6.3	$5.8 \pm 0.3$	7.3	6.6	6.6	2.2		
6.3	$7.7 \pm 0.3$	7.3	6.3	6.3	2.2		
8	$6.5 \pm 0.3$	8.9	8.3	8.3	2.3		
8	$10.5 \pm 0.5$	9.0	8.3	8.3	3.1	0.8 ~ 1.1	
10	$10.5 \pm 0.5$	11.0	10.3	10.3	4.5		
12.5	$13.5 \pm 0.5$	13.6	13	13	4.5	1.1 ~ 1.4	2
12.5	$16.0 \pm 0.5$	13.6	13	13	4.5		
16	$16.5 \pm 0.5$	18.0	17	17	6.4		
16	$21.5 \pm 0.5$	18.0	17	17	6.4		
18	$16.5 \pm 0.5$	20.0	19	19	6.4		
18	$21.5 \pm 0.5$	20.0	19	19	6.4		

规格特性表  
Table of specifications and characteristics

C <sub>R</sub> (μF)	6.3V		10V		16V		25V		35V	
	ΦDxL mm*mm	I <sub>ACR</sub> 120Hz 105°C mA	ΦDxL mm*mm	I <sub>ACR</sub> 120Hz 105°C mA	ΦDxL mm*mm	I <sub>ACR</sub> 120Hz 105°C mA	ΦDxL mm*mm	I <sub>ACR</sub> 120Hz 105°C mA	ΦDxL mm*mm	I <sub>ACR</sub> 120Hz 105°C mA
4.7					4*5.8	18	4*5.8	18	4*5.8	17
10			4*5.8	23	4*5.8	21	4*5.8	23	5*5.8	27
22	4*5.8	22	4*5.8	27	5*5.8	30	5*5.8	32	6.3*5.8	45
33	4*5.8	26	5*5.8	35	5*5.8	35	6.3*5.8	49	6.3*5.8	48
47	5*5.8	38	5*5.8	40	6.3*5.8	50	6.3*5.8	50	6.3*7.7	80
100	6.3*5.8	75	6.3*5.8	73	6.3*5.8	70	6.3*7.7	100	6.3*7.7	82
220	6.3*7.7	130	6.3*7.7	125	6.3*7.7	120	8*10.5	278	8*10.5	277
330	8*10.5	320	8*10.5	300	8*10.5	290	8*10.5	298	10*10.5	380
470	8*10.5	340	8*10.5	320	10*10.5	410	10*10.5	398	12.5*13.5	540
680	10*10.5	420	10*10.5	410	10*10.5	380	12.5*13.5	640	12.5*13.5	610
1000	10*10.5	455	10*10.5	440	12.5*13.5	560	12.5*16	560	12.5*16	820
2200	12.5*13.5	690	12.5*13.5	690	16*16.5	910	16*16.5	910	18*21.5	1080
3300	12.5*16	860	16*16.5	960	16*16.5	960	18*16.5	1200		
4700	16*16.5	1050	16*16.5	1030	18*16.5	1250	18*21.5	1340		
6800	18*16.5	1300	18*16.5	1290						
8200	18*21.5	1500	18*21.5	1480						

C <sub>R</sub> (μF)	50V		63V		80V		100V	
	ΦDxL mm*mm	I <sub>ACR</sub> 120Hz 105°C mA	ΦDxL mm*mm	I <sub>ACR</sub> 120Hz 105°C mA	ΦDxL mm*mm	I <sub>ACR</sub> 120Hz 105°C mA	ΦDxL mm*mm	I <sub>ACR</sub> 120Hz 105°C mA
1	4*5.8	8	4*5.8	8				
2.2	4*5.8	12	4*5.8	12				
3.3	4*5.8	15	5*5.8	17				
4.7	5*5.8	20	6.3*5.8	23	6.3*5.8	28	6.3*5.8	20
10	6.3*5.8	33	6.3*5.8	33	6.3*7.7	48	6.3*7.7	32
22	6.3*5.8	40	6.3*7.7	60	8*10.5	105	8*10.5	100
33	6.3*7.7	68	8*10.5	143	8*10.5	105	10*10.5	150
47	6.3*7.7	72	8*10.5	150	10*10.5	160	12.5*13.5	180
100	8*10.5	210	10*10.5	310	12.5*13.5	270	12.5*13.5	250
220	10*10.5	338	12.5*13.5	480	16*16.5	470	16*16.5	450
330	12.5*13.5	500	16*16.5	660	18*16.5	600	18*16.5	590
470	12.5*16	580	16*16.5	700	18*21.5	1000	18*21.5	980
1000	18*16.5	1000						

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