

# VXD

## 特点 Features

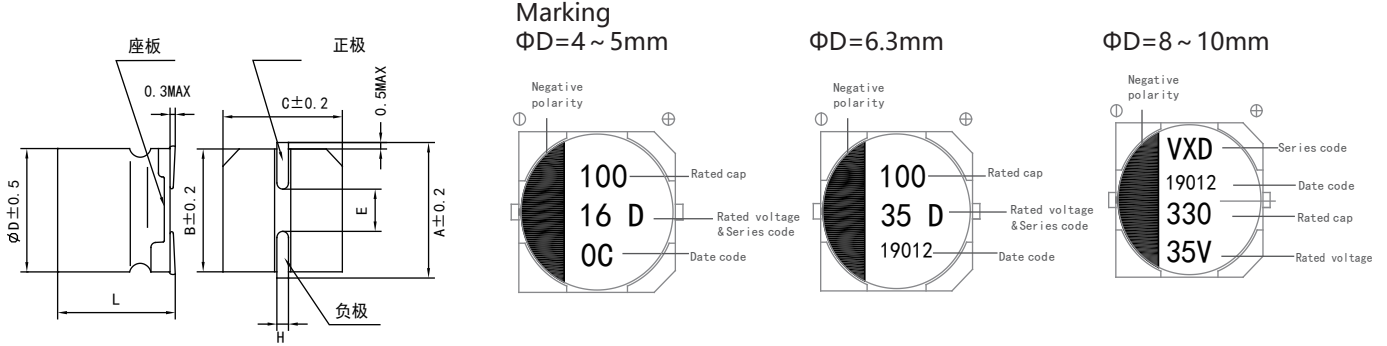
- 保证105°C 2000小时。Endurance 2000h at 105°C.
- 额定电压范围：6.3~50V。Rated Voltage Range:6.3~50V.
- 小型化品。Miniaturized Type.
- 满足RoHS。RoHS Compliant.
- 满足AEC-Q200认证。AEC-Q200 Compliant.



## 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 ~ 50V							
标称容量范围 Nominal Capacitance Range(C <sub>R</sub> )	10 ~ 2200μF						120Hz, +20°C	
标称容量允许偏差 Allowed Capacitance Tolerance(C <sub>T</sub> )	±20%(M)						120Hz, +20°C	
漏电流 Leakage Current(I <sub>L</sub> )	≤0.01C <sub>R</sub> U <sub>R</sub> 或者3μA取较大值 (Whichever is greater)						+20°C After 2 minutes	
损耗角正切值 Tangent of loss angle(Tanδ)	U <sub>R</sub> (V)	6.3	10	16	25	35	50	Max. 120Hz, +20°C
	Tanδ	0.26	0.19	0.16	0.14	0.12	0.10	
低温特性 Characteristics at Low Temperature	U <sub>R</sub> (V)	6.3	10	16	25	35	50	Max. 120Hz
	Z <sub>-25°C / Z<sub>+20°C</sub></sub>	2	2	2	2	2	2	
	Z <sub>-40°C / Z<sub>+20°C</sub></sub>	3	3	3	3	3	3	
	Z <sub>-55°C / Z<sub>+20°C</sub></sub>	4	4	4	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:							
	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	≤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:							
	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	≤ 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.							
	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



尺寸表 size table

单位 Unit: mm

ΦD	L	A	B	C	E±0.2	H
4	5.8±0.3	5.0	4.3	4.3	1.0	0.5~0.8
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	
6.3/6.5	7.7±0.3	7.3	6.3	6.3	2.2	0.8~1.1
8/8.2	10.5±0.5	9.0	8.3	8.3	3.1	
10/10.2	10.5±0.5	11.0	10.3	10.3	4.5	

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> 100KHz 105°C mA	ESR <sub>max</sub> 100KHz 25°C Ω	ΦDxL mm*mm	I <sub>ACR</sub> 100KHz 105°C mA	ESR <sub>max</sub> 100KHz 25°C Ω	ΦDxL mm*mm	I <sub>ACR</sub> 100KHz 105°C mA	ESR <sub>max</sub> 100KHz 25°C Ω	ΦDxL mm*mm	I <sub>ACR</sub> 100KHz 105°C mA	ESR <sub>max</sub> 100KHz 25°C Ω	ΦDxL mm*mm	I <sub>ACR</sub> 100KHz 105°C mA	ESR <sub>max</sub> 100KHz 25°C Ω
10															
22													4*5.8	160	0.85
33										4*5.8	160	0.85			
47							4*5.8	160	0.85	5*5.8	240	0.36	5*5.8	240	0.36
100	4*5.8	160	0.85	4*5.8	160	0.85	5*5.8	240	0.36	6.3*5.8	300	0.26	6.3*5.8	300	0.26
150				5*5.8	240	0.36							6.5*7.7	600	0.16
220	5*5.8	240	0.36	6.3*5.8	300	0.26	6.3*5.8	300	0.26	6.5*7.7	600	0.16			
330	6.3*5.8	300	0.26				6.5*7.7	600	0.16				8*10.5	850	0.08
470				6.3*7.7	600	0.16				8.2*10.5	850	0.08			
560													10*10.5	1190	0.06
680	6.3*7.7	600	0.16				8*10.5	850	0.08				10.2*10.5	1190	0.06
820										10*10.5	1190	0.06			
1000				8*10.5	850	0.08	10*10.5	1190	0.06						
1500	8*10.5	850	0.08	10*10.5	1190	0.06									
2200	10.2*10.5	1190	0.06												

规格特性表  
Table of specifications and characteristics

C <sub>R</sub> (μF)	U <sub>R</sub> (V)	50V		
		ΦDxL mm*mm	I <sub>ACR</sub> 100KHz 105°C mA	ESR <sub>max</sub> 100KHz 25°C Ω
10		4*5.8	85	2.3
22		5*5.8	165	0.88
33				
47		6.3*5.8	195	0.68
100		6.5*7.7	350	0.34
150				
220		8.2*10.5	670	0.18
330		10.2*10.5	900	0.12

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

C <sub>R</sub> (μF)	Frequency(Hz)			
	120	1K	10K	100K
10-150	0.40	0.75	0.90	1.0
220-560	0.50	0.85	0.94	1.0
680-2200	0.60	0.87	0.95	1.0