

VXB

特点 Features

- 保证105°C 2000~5000小时。Endurance 2000~5000h at 105°C.
- 额定电压范围：6.3~100V。Rated Voltage Range:6.3~100V.
- 低阻抗、长寿命品。Low ESR ,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°C										
额定电压范围 Rated Voltage(U _R)	6.3 ~ 100V										
标称容量范围 Nominal Capacitance Range(C _R)	1 ~ 8200μF										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)	≤0.01C _R U _R 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 _R	6.3	10	16	25	35	50	63	80	100	Max. 120Hz, +20°C
	Tanδ	0.26	0.20	0.16	0.14	0.12	0.12	0.10	0.08	0.07	
低温特性 Characteristics at Low Temperature	U _R (V)	6.3	10	16	25	35	50	63	80	100	Max. 120Hz
	Z-25°C / Z+20°C	4	3	2	2	2	2	2	3	2	
	Z-55°C / Z+20°C	8	5	4	3	3	3	3	3	3	
耐久性 Load Life	+105°C, 连续施加额定电压5000小时 (ΦD=4, 5和6.3、8*6.5为2000小时), 恢复16小时后: After applying rated voltage for 5000 hours (2000 hours for ΦD = 4, 5, 6.3, 8*6.5) at 105°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 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

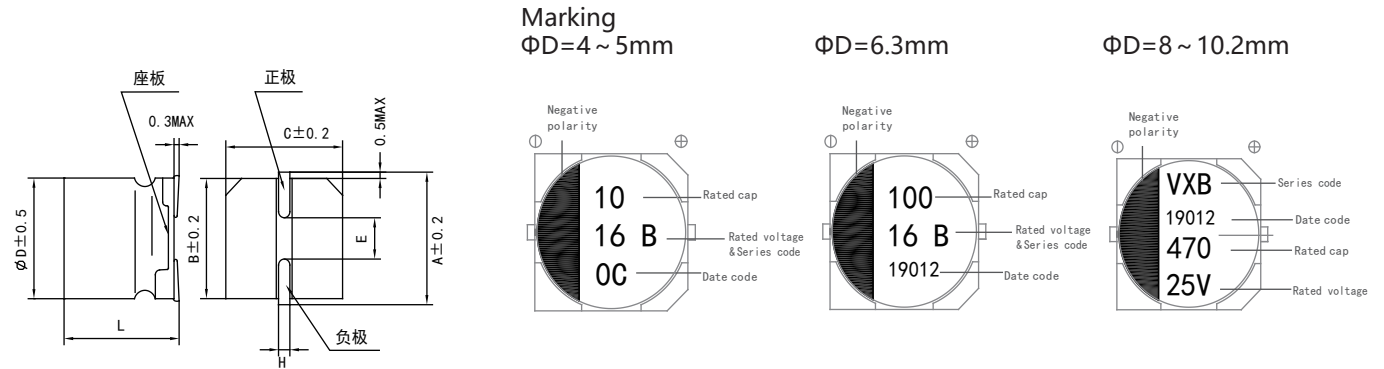
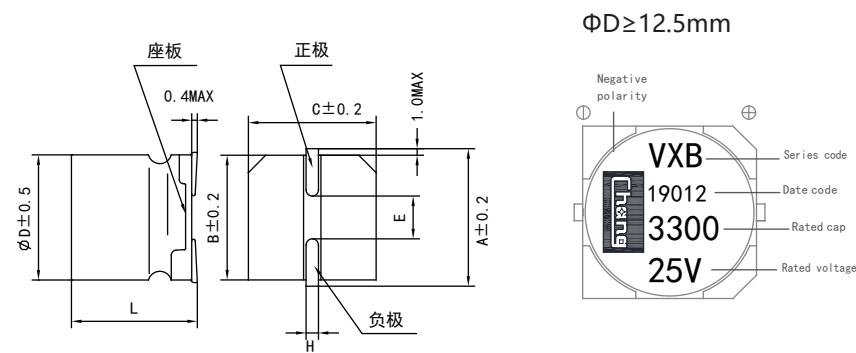


Fig.2



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

C _r (μF)	U _r (V)	6.3V			10V			16V			25V			35V		
		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
4.7													4*5.8	90	1.35	
10							4*5.8	90	1.35	4*5.8	90	1.35	5*5.8	160	0.70	
22		4*5.8	90	1.35	4*5.8	90	1.35	5*5.8	160	0.70	5*5.8	160	0.70	6.3*5.8	240	0.36
47		5*5.8	160	0.70	5*5.8	160	0.70	5*5.8	160	0.70	6.3*5.8	240	0.36	6.3*7.7	300	0.30
100		5*5.8	160	0.70	6.3*5.8	240	0.36	6.3*5.8	240	0.36	6.3*7.7	300	0.30	8*10.5	650	0.16
220		6.3*5.8	240	0.36	6.3*7.7	300	0.30	6.3*5.8	300	0.30	8*10.5	650	0.16	10*10.5	850	0.09
330		6.3*7.7	300	0.30	8*10.5	650	0.16	6.3*7.7	650	0.16	8*10.5	650	0.16	10*10.5	850	0.09
470		8*10.5	650	0.16	8*10.5	650	0.16	8*10.5	850	0.09	10*10.5	850	0.09	12.5*13.5	1190	0.06
680		8*10.5	650	0.16	10*10.5	850	0.09	10*10.5	850	0.09	12.5*13.5	1190	0.06	12.5*16	1250	0.055
1000		10*10.5	850	0.09	10*10.5	850	0.09	10*10.5	1190	0.06	12.5*16	1250	0.055	16*16.5	1800	0.038
1500		10*10.5	850	0.09	12.5*13.5	1190	0.06	12.5*13.5	1250	0.055	16*16.5	1800	0.038	18*16.5	1980	0.035
2200		12.5*13.5	1190	0.06	12.5*16	1250	0.055	16*16.5	1800	0.038	16*16.5	1800	0.038	18*21.5	2100	0.033
3300		12.5*16	1250	0.055	16*16.5	1800	0.038	16*16.5	1800	0.038	18*16.5	1980	0.035			
4700		16*16.5	1800	0.038	16*16.5	1800	0.038	18*16.5	1980	0.035						
6800		18*16.5	1980	0.035	18*16.5	1980	0.035									
8200		18*21.5	2100	0.033	18*21.5	2100	0.033									

C _r (μF)	U _r (V)	50V			63V			80V			100V		
		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
1		4*5.8	60	2.9									
2.2		4*5.8	60	2.9									
3.3		4*5.8	60	2.9									
4.7		5*5.8	85	1.50	5*5.8	70	1.90						
10		6.3*5.8	165	0.88	6.3*5.8	130	1.2	6.3*7.7	60	2.4	6.3*7.7	60	2.4
22		6.3*5.8	165	0.88	6.3*7.7	150	0.9	8*10.5	130	1.3	8*10.5	130	1.3
33		6.3*7.7	195	0.68	8*10.5	280	0.50	10*10.5	200	0.7	10*10.5	200	0.7
47		6.3*7.7	195	0.68	8*10.5	250	0.50	10*10.5	200	0.7	12.5*13.5	460	0.45
100		8*10.5	370	0.34	10*10.5	450	0.25	12.5*13.5	460	0.45	12.5*13.5	460	0.45
220		10*10.5	560	0.18	12.5*13.5	750	0.15	12.5*16	550	0.26	16*16.5	650	0.17
330		12.5*13.5	650	0.12	16*16.5	900	0.082	16*16.5	650	0.17	16*21.5	900	0.15
470		12.5*16	870	0.10	16*16.5	900	0.082	16*21.5	900	0.15	18*21.5	950	0.15
680		16*16.5	1000	0.073	16*21.5	1150	0.080	18*21.5	950	0.15			
1000		18*16.5	1500	0.066	18*21.5	1250	0.060						
1500		18*21.5	1620	0.050									

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