

VX series

- High reliability, High temperature 高可靠性, 耐高温
- Load life of 2500 hours at 150°C 直流负载寿命 150°C-2500 小时
- Compliant to the RoHS2.0 directive (2011/65/EU) 符合 RoHS2.0 规范
- Suitable for High reliability requirement of Electronic Equipment 适合用于提高电子设备的可靠度



Specifications 系列参数

Items 项目	Characteristics 特性	
Operating Temp. Range 工作温度范围	-55°C ~ +150°C	
Capacitance Range 容量范围	33 ~ 1000 μ F	
Capacitance Tolerance 容量偏差	M : \pm 20%	
Rated Voltage Range 额定电压范围	6.3V ~ 16V DC	
Dissipation Factor 损耗角正切	Not to exceed the value specified 不超过规格值	
Leakage Current 漏电流	Not to exceed the value specified (after 2 minutes) 不超过规格值 (充电 2 分钟后测试)	
ESR (100K~300KHz) 等效串联电阻	Not to exceed the value specified 不超过规格值	
Endurance 150°C, 2500h, at rated voltage 寿命: 150°C 加载额定电压连续工作 2500 小时	Capacitance Change 容量变化	Within \pm 20% of the value before test 初始值 \pm 20% 以内
	Dissipation Factor 损耗角正切	Not to exceed 150% of the value specified 不超过 1.5 倍规格值
	ESR 等效串联电阻	Not to exceed 150% of the value specified 不超过 1.5 倍规格值
	Leakage current 漏电流	Not to exceed the value specified 不超过规格值
Moisture Resistance 85°C, RH85%, 1000h, at rated voltage 耐湿性 85°C, RH85% 加载额定电压连续工作 1000 小时	Capacitance Change 容量变化	Within \pm 20% of the value before test 初始值 \pm 20% 以内
	Dissipation Factor 损耗角正切	Not to exceed 150% of the value specified 不超过 1.5 倍规格值
	ESR 等效串联电阻	Not to exceed 150% of the value specified 不超过 1.5 倍规格值
	Leakage Current 漏电流	Not to exceed the value specified 不超过规格值
Resistance to Soldering Heat After the recommended soldering conditions 耐焊接热 推荐焊接条件处理后测试	Capacitance Change 容量变化	Within \pm 5% of the value before test 初始值 \pm 5% 以内
	Dissipation Factor 损耗角正切	Not to exceed the value specified 不超过规格值
	ESR 等效串联电阻	Not to exceed the value specified 不超过规格值
	Leakage Current 漏电流	Not to exceed the value specified 不超过规格值 (Charging treatment 充电处理)

※ When there is any doubt, measure after charging treatment below.

Charging treatment: at 150 °C, Rated voltage is loaded for 30 minutes continuously.

如有疑问, 请进行充电处理后再测试, 测试条件如下:

充电处理: 在 150°C 环境温度下连续施加额定直流电压 30 分钟。

Dimensions 尺寸 (Unit单位:mm)

		Φ D	L	W	H	C	P	R	T ₁ , T ₂
		6.3	6.2	6.6	6.6	7.2	2.1	0.5~0.8	0.2max.
		6.3	7.7	6.6	6.6	7.2	2.1	0.5~0.8	0.2max.
		6.3	9	6.6	6.6	7.2	2.1	0.5~0.8	0.2max.
		8	9.2	8.3	8.3	9.0	3.2	0.8~1.1	0.2max.
		8	10.5	8.3	8.3	9.0	3.2	0.8~1.1	0.2max.
		8	12.2	8.3	8.3	9.0	3.2	0.8~1.1	0.2max.
		10	10.5	10.3	10.3	11.0	4.6	0.8~1.1	0.2max.
		10	12.8	10.3	10.3	11.0	4.6	0.8~1.1	0.2max.

Capacitance List 容量对照表

W.V (S.V) SIZE	2.5 (2.9)	6.3 (7.2)	16 (18)	25 (29)	
6.3x6.2	390 ~ 560 μ F	220 ~ 330 μ F	100 ~ 120 μ F	33 ~ 47 μ F	
6.3x7.7	560 ~ 820 μ F	330 ~ 560 μ F	150 ~ 180 μ F	47 ~ 68 μ F	
6.3x9	680 ~ 1000 μ F	470 ~ 680 μ F	180 ~ 270 μ F	56 ~ 82 μ F	
8x9.2			270 ~ 470 μ F	82 ~ 120 μ F	
8x10.5			330 ~ 560 μ F	100 ~ 180 μ F	
8x12.2			330 ~ 560 μ F	120 ~ 180 μ F	
10x10.5			390 ~ 680 μ F	120 ~ 220 μ F	
10x12.8			470 ~ 1000 μ F	180 ~ 330 μ F	

Characteristics List 规格特性表

W.V. 工作电压 (V)	Capacitance 容量 (μ F)	L.C. 漏电流 (μ A,2min)	tg δ 损耗角正切 (120Hz,20°C)	ESR 等效串联电阻 (m Ω ,100kHz)	Rated Ripple Current 额定纹波电流 (mA,r.m.s)	Size 尺寸 Φ DxL(mm)	Part Number 物料编码
2.5	560	300	0.08	12	1684	6.3x6.2	PVX561M2R5E62TR□□□□
	820	410	0.08	9	2149	6.3x7.7	PVX821M2R5E77TR□□□□
	1000	500	0.08	7	2556	6.3x9	PVX102M2R5E09TR□□□□
6.3	330	415.8	0.08	15	1516	6.3x6.2	PVX331M6R3E62TR□□□□
	470	592.2	0.08	12	1940	6.3x7.7	PVX471M6R3E77TR□□□□
	560	705.6	0.08	8	2510	6.3x9	PVX561M6R3E09TR□□□□
16	100	320	0.10	25	1196	6.3x6.2	PVX101M016E62TR□□□□
	150	480	0.10	15	1678	6.3x7.7	PVX151M016E77TR□□□□
	270	864	0.10	15	1771	6.3x9	PVX271M016E09TR□□□□
	330	1000	0.10	12	2149	8x9.2	PVX331M016F92TR□□□□
	470	1000	0.10	12	2381	8x10.5	PVX471M016F1ETR□□□□
	470	1000	0.10	12	2498	8x12.2	PVX471M016F1CTR□□□□
	560	1000	0.10	12	2439	10x10.5	PVX561M016G1ETR□□□□
	820	1000	0.10	10	2962	10x12.8	PVX821M016G1DTR□□□□
25	47	329	0.10	40	1005	6.3x6.2	PVX470M025E62TR□□□□
	68	476	0.10	35	1156	6.3x7.7	PVX680M025E77TR□□□□
	82	574	0.10	30	1318	6.3x9	PVX820M025E09TR□□□□
	100	700	0.10	22	1702	8x9.2	PVX101M025F92TR□□□□
	150	1000	0.10	20	1957	8x10.5	PVX151M025F1ETR□□□□
	180	1000	0.10	20	2073	8x12.2	PVX181M025F1CTR□□□□
	220	1000	0.10	20	2015	10x10.5	PVX221M025G1ETR□□□□
	330	1000	0.10	18	2329	10x12.8	PVX331M025G1DTR□□□□

* For the last 4 digits of the part number, please refer to the part number system on page 154.

物料编码的最后 4 位，请参考 154 页物料编码系统。

Frequency Coefficient for Ripple Current 纹波电流频率系数

Frequency 频率	120Hz≤freq.<1KHz	1KHz≤freq.<10KHz	10KHz≤freq.<50KHz	50KHz≤freq.<100KHz	100KHz≤freq.<500KHz
Coefficient 系数 (C≤47 μ F)	0.05	0.25	0.55	0.80	1.00
Coefficient 系数 (C>47 μ F)	0.05	0.30	0.70	0.85	1.00