



产品规格承认书

Product Specification for Approval

客 户 名:

立创商城

Customer:

产 品 品 名:

X2型金属化聚丙烯膜抑制电源电磁干扰电容器

Description:

X2 Series Metallized polypropylene film interference suppression capacitor

规 格 型 号:

X2-334K275VAC

Specifications:

圣融达料号:

MP2334K27D2X80F0032

Sincerity P/N:

客 户 料 号:

MP2334K27D2X80F0032LC

Customer P/N:

产 品 品 牌:

圣融达 (SRD)

Product Brands:

制 作 日 期:

2025-3-27

Production Date:

客户承认 Customer's Approval			圣融达承认 Sincerity Approval		
接收 Receive	审核 Checked	批准 Approved	制作 Producer	审核 Checked	批准 Approved
			石海珍	谢 宇	2025

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修 改 记 录

Change Record

序号 NO	修改日期 Change Date	修改内容 Change Content	修改原因 Change Reason

MPX/MKP-X2型金属化聚丙烯膜抑制电源电磁干扰电容器

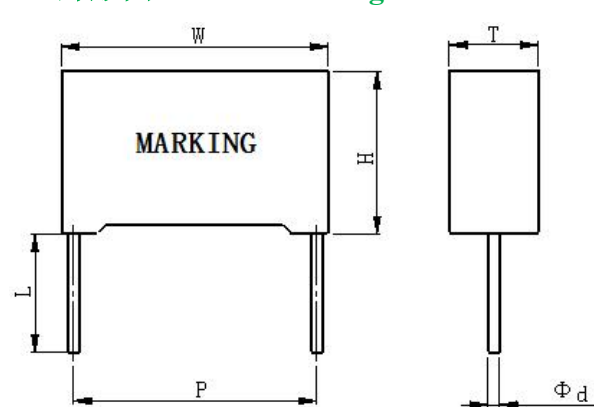
MPX/MKP-X2 Series Metallized polypropylene film interference suppression capacitor

1、产品特点及主要用途Product characteristics and application

阻燃塑胶外壳封装，优异的阻燃性能，广泛用于电源跨线路等抗干扰场合产品损耗小，适用于电源抗干扰电路

Excellent flame retardant performance, Widely applied as across line Interference Suppression field, suitable for power supply anti-interference circuit with rated voltage not more than 320VAC and frequency of 50-100 Hz

2、外形图Outline Drawing



标志示例Marking Example

275Vac样式

 MPX/MKP X2
 334 K 275V~
   
 40/110/56B

320Vac样式

 MPX/MKP X2
 334 K 320V~
    
 40/110/56B
 www.srdkj.com

3、产品尺寸及性能参数：Product Dimension and Characteristic Data

圣融达料号 SRD P/N	客户料号 Customer P/N	额定电压 Rated Voltage	标称容量 Cap	容量偏差 Tolerance	外形尺寸(mm) Dimension(mm)					
					W ±0.5	T ±0.5	H ±0.5	P ±0.5	d ±0.05	L ±0.5
MP2334K27D2X80 F0032	MP2334K27D2 X80F0032LC	275vac	0.33μF	K(±10%)	18	6	12	15	0.8	3.2
备注：		SRD 黄壳 切脚								

4、技术参数Specification

参照标准Reference Standard	GB/T 6346.14-2015、IEC 60384-14		
产品类别Product category	X2		
气候类别/阻燃等级 Climatic category/Passive Flammability Class	40/110/56/B		
工作温度范围 Operation Temperature Range	-40℃~110℃		
额定电压 Rated Voltage	275Vac/320Vac		
电容量范围 Capacitance Range	0.001μF~10.0μF		
电容量偏差Capacitance Tolerance	±5%(J)、±10%(K)、±20%(M) (20℃, 1kHz)		
耐电压 Voltage Proof	引线之间Between Terminals	1000Vdc, 60s	
	极壳之间Between Terminals to case	2140Vac, 60s	
绝缘电阻Insulation Resistance	C _R ≤0.33μF, R≥15000 MΩ C _R >0.33μF, R _C ≥5000S (20℃, 100V, 1min)		
损耗角正切Dissipation Factor	C<0.47μF	tgδ≤0.0010(1kHz)	tgδ≤0.0020(10kHz)
	0.47μF≤C≤1.0μF	tgδ≤0.0020(1kHz)	tgδ≤0.0040(10kHz)
	1.0μF<C≤10.0μF	tgδ≤0.0030(1kHz)	/

5、产品安全认证Safety Approval

认证标志Certification Logo	认证证书号Certification No.	认证国家Certification Country
	CQC22001351109	中国China
	E528513	美国USA/加拿大Canada
	40052140	德国Germany（欧盟）Europe
	SU03083 - 16001A~16005A SU03083 - 22001	韩国Korea

6、产品代码及编写说明：Part number code rules

M	P	2	1	0	4	K	3	2	D	2	R	8	0	F	0	0	3	5
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

第1~3位Digit 1 to 3	电容器型号代码Series code	第4~6位Digit 4 to 6	标称电容量代码 Rated capacitance code
MP2=MPX/MKP-X2		ABC=AB×10 ^C pF Example104=10×10 ⁴ pF=0.1μF	
第7位Digit 7	电容量偏差代码 Capacitance tolerance code	第8~9位Digit 8 to 9	额定电压代码 Rated voltage code
J=±5%, K=±10%, M=±20%		32=320Vac, 27=275Vac	
第10~11位 Digit 10 to 11	外形尺寸代码 Dimension code	第12位Digit 12	商标颜色 Trademark color
见外形尺寸对照表（W*T*H） Shape size		R=灰壳, X=黄壳, F=橙色, T=黑色, H=红色	
第13位 Digit 13	线径代码 Line diameter code	第14位Digit 14	特殊码Special code
5=0.5、6=0.6、8=0.8、1=1.0、2=1.2		内部识别码 Internal Recognition Code	
第15-19位 Digit15-19	引线加工码 Lead processing code		
见外形图See the shape chart			

7、品质保证（产品出厂检查）试验：Quality ensuring test (before shipment):

检查项目（每批） Inspection item（each batch）	技术要求	检查水平IL	接收质量限AQL
		GB 2828一次正常抽样方案	
外观检查 Appearance inspection	标志正确，清晰可读，无明显损伤，针孔气泡，引出线无严重损伤。Marking is correct, clearly readable, No obvious damage, pinhole bubbles, There was no serious damage to the lead.	II	1.0
外形尺寸 Dimensions	按本文件第3条Refer to item 3		
电容量 Capacitance	按本文件第4条Refer to item 4	II	0.25*
损耗角正切 Dissipation Factor			
耐电压 Dielectric strength			
绝缘电阻 Insulation resistance			
可焊性 Solder ability	按本文件第8.1条Refer to item 8.1	S-3	1.0
*耐电压不允许失效Voltage proof failure is not allowed			

8、试验方法及性能试验 Test Method And Performance

No.	项目 project	性能要求 Performance requirements	试验方法 (GB/T6346.14-2015) experiment method
8.1	可焊性 Solder ability	上锡面积90%以上 More than 90% of the tin area	方法1 method 1 焊料温度 Solder temperature: $245 \pm 5^{\circ}\text{C}$ 浸渍时间 Immersion time: $2.0 \pm 0.5\text{s}$
8.2	初始测量 Initial measurement	电容量 capacitance 损耗角正切 DF: $C_R \leq 1\mu\text{F}$, Test frequency: 10kHz $C_R > 1\mu\text{F}$, Test frequency: 1kHz	
	引出端强度 Terminal strength	外观无可见损伤 There shall be no visible damage	拉力试验 Ual: 拉力: $0.5 < \phi d \leq 0.8\text{mm}$: 10N, $d > 0.8\text{mm}$: 20N 弯曲试验 Ub: 每个方向上进行二次弯曲 Tensile test Ual: Tension: $0.5 < \phi d \leq 0.8\text{mm}$; 10N, $d > 0.8\text{mm}$: 20N Bend: test Ub: secondary bending in each direction
	耐焊接热 Resistance to solder heat		方法1A: $260 \pm 5^{\circ}\text{C}$, 5s method 1A $260 \pm 5^{\circ}\text{C}$, 5s
	最后测量 Final measurement	外观无可见损伤 There shall be no visible damage 电容量变化: $\Delta C/C \leq \pm 5\%$ Capacitance: $\Delta C/C \leq \pm 5\%$ (relative to the initial value)	
8.3	初始测量 Initial measurement	电容量 capacitance 损耗角正切 DF: $C_R \leq 1\mu\text{F}$, Test frequency: 10kHz $C_R > 1\mu\text{F}$, Test frequency: 1kHz	

NO.	项目 project	性能要求 Performance requirements	试验方法 (GB/T6346.14-2015) Test method
8.3	温度快速变化 Rapid temperature change	外观无可见损伤 There shall be no visible damage	$T_A = -40^{\circ}\text{C}$, $T_B = +110^{\circ}\text{C}$ 5次循环, 持续时间: $t=30\text{min}$ 5 cycles, duration: $t=30\text{min}$
	振动vibration	外观无可见损伤 There shall be no visible damage	振幅0.75mm或加速度 98m/s^2 (取严酷度较小者), 频率10~500Hz三个方向, 每个方向2h, 共6h Amplitude 0.75mm or acceleration 98m/s^2 (slightly less severe), frequency 10~500Hz three sides Direction, 2h in each direction, total 6h
	碰撞 Bump		4000次, 加速度 400 m/s^2 , 脉冲持续时间: 6ms 4000 times, acceleration 400 m/s^2 , Pulse duration: 6ms
	最后测量 Final measurement	外观无可见损伤 There shall be no visible damage 电容量: $\Delta C/C \leq \pm 5\%$ Capacitance: $\Delta C/C \leq \pm 5\%$ (relative to the initial value) 损耗角正切: 符合本文件第4条要求DF: Comply the Item 4	
8.4	气候顺序 climate seunce	初始测量 Initial measurement	按8.2或8.3的最终测量 Refer to item 8.2 and 8.3 final measurement
		干热Dry heat	+110°C, 16h
		循环湿热 Damp heat, Cyclic	试验Db,严酷度b, 第一次循环 Test Db, severity b, First cycle
		寒冷cold	-40°C, 2h
		循环湿热 Damp heat, Cyclic	试验Db,严酷度b, 剩余循环 Test Db, severity b, the other cycles,
		外观无可见损伤, 标志清晰, 电容量变化: $\Delta C/C \leq 5\%$, 损耗角正切增加: $C_R \leq 1\mu\text{F} \leq 0.008$ (10kHz) $C_R > 1\mu\text{F} \leq 0.005$ (1kHz) 耐电压: 无击穿或飞弧 绝缘电阻 IR: $\geq$ 额定值的50% There shall be no visible damage, legible marking $\Delta C/C \leq 5\%$ (relative to the initial value) Increase of $\text{tg}\delta$: $C_R \leq 1\mu\text{F} \Delta \text{tg}\delta \leq 0.008$ (10kHz) $C_R > 1\mu\text{F} \Delta \text{tg}\delta \leq 0.005$ (1kHz) Voltage proof: no breakdown and flashover I.R.: $\geq 50\%$ of the rated value	

NO.	项目 project	性能要求 Performance requirements	试验方法 (GB/T6346.14-2015) Test method
8.5	稳态湿热 Damp heat steady state	外观无可见损伤, 标志清晰, 电容量变化: $\Delta C/C \leq 5\%$, 损耗角正切增加: $C_R \leq 1\mu F \leq 0.008$ (10kHz) $C_R > 1\mu F \leq 0.005$ (1kHz) 耐电压: 无击穿或飞弧 绝缘电阻 IR: $\geq$ 额定值的50% There shall be no visible damage, legible marking $\Delta C/C \leq 5\%$ (relative to the initial value) Increase of $\tan \delta$: $C_R \leq 1\mu F \Delta \tan \delta \leq 0.008$ (10kHz) $C_R > 1\mu F \Delta \tan \delta \leq 0.005$ (1kHz) Voltage proof: no breakdown and flashover IR: $\geq 50\%$ of the rated value	温度: $40 \pm 2^\circ C$ 湿度: $93 (+2/-3) \% RH$ 持续时间: 56天 Temperature: $40 \pm 2^\circ C$ Humidity: $93 (+2/-3) \% rh$ Duration: 56 days
8.6	耐久性 Endurance	外观无可见损伤, 标志清晰, 电容量变化: $\Delta C/C \leq 10\%$, 损耗角正切增加: $C_R \leq 1\mu F \leq 0.008$ (10kHz) $C_R > 1\mu F \leq 0.005$ (1kHz) 耐电压: 无击穿或飞弧 绝缘电阻 IR: $\geq$ 额定值的50% There shall be no visible damage, legible marking $\Delta C/C \leq 10\%$ (relative to the initial value) Increase of $\tan \delta$: $C_R \leq 1\mu F \Delta \tan \delta \leq 0.008$ (10kHz) $C_R > 1\mu F \Delta \tan \delta \leq 0.005$ (1kHz) Voltage proof: no breakdown and flashover IR.: $\geq 50\%$ of the rated value	$+110^\circ C$, 1000h 施加电压: 额定电压 (50Hz) $+110^\circ C$, 1000h Applied voltage: rated voltage(50Hz)
8.7	充电和放电 Charging and discharging	电容量变化: $\Delta C/C \leq 10\%$, 损耗角正切增加: $C_R \leq 1\mu F \leq 0.008$ (10kHz) $C_R > 1\mu F \leq 0.005$ (1kHz) 绝缘电阻 IR: $\geq$ 额定值的50% $\Delta C/C \leq 10\%$ (relative to the initial value) Increase of $\tan \delta$: $C_R \leq 1\mu F \Delta \tan \delta \leq 0.008$ (10kHz) $C_R > 1\mu F \Delta \tan \delta \leq 0.005$ (1kHz) IR.: $\geq 50\%$ of the rated value	次数: 10000次 充电持续时间: 0.5S, 放电持续时间: 0.5S 充电电压为 $\sqrt{2} U_R$ (dc) 充电电阻: $220/C_R (\Omega)$ 或 20Ω (取较大者) C_R 为标称电容量 (μF) Number of times: 10,000 times Charging duration: 0.5s, discharge duration: 0.5s Charging voltage is rated voltage Charging resistance: $220/C_R (\Omega)$ or 20Ω (whichever is greater) C_R is the rated capacitance (μF)

NO.	项目 project	性能要求 Performance requirements	试验方法 (GB/T6346.14-2015) Test method												
8.8	阻燃性试验 Passive flammability	离开火焰后, 最大燃烧时间不超过10s, 电容器燃烧的滴落物不应引燃在其下铺设的棉纸 The flaming time of each capacitor shall not go beyond 10s after it is taken apart from the flame. The drop objects of the capacitor shall not burn cotton paper after leaving flame	针焰试验, 阻燃等级B, 在火焰上暴露一次 Needle flame test: burning resisting type B, exposed one time on flame <table border="1"> <tr> <th colspan="4">针对电容器体积V (mm³) 施加火焰时间 (s)</th></tr> <tr> <td>≤250</td><td>250<V≤500</td><td>500<V≤1750</td><td>>1750</td></tr> <tr> <td>10</td><td>20</td><td>30</td><td>60</td></tr> </table>	针对电容器体积V (mm ³) 施加火焰时间 (s)				≤250	250<V≤500	500<V≤1750	>1750	10	20	30	60
针对电容器体积V (mm ³) 施加火焰时间 (s)															
≤250	250<V≤500	500<V≤1750	>1750												
10	20	30	60												

9、波峰焊接 (最大焊接温度) Peak Welding (Maximum Welding Temperature)

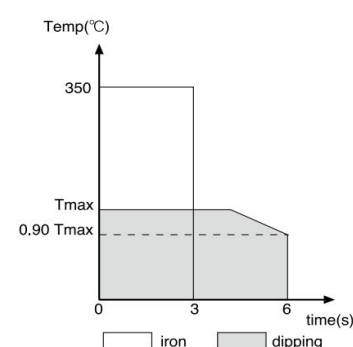
9.1 焊接条件请按照右侧的焊接图表: Welding conditions should follow the welding chart on the right side:

	最高温度Tmax	时间Time
预热	最高温度 ≤ 130°C	≤ 1min
焊接锡炉温度	260 ± 5°C	5 ± 1s

9.2 如需焊接两次, 第二次焊接必须等到电容器恢复到常温。

If twice welding is required, the second welding must wait until the capacitor is restored to normal temperature.

9.3 插件产品仅适合使用波峰焊接 Plug-in products are only suitable for wave soldering



10、包装及运输要求 Packaging and transportation requirements

电容器以纸箱包装, 应避免雨雪的直接淋浇和机械损伤, 并保存在-10°C~+40°C温度下, 相对湿度75%以下, 应避免温度剧烈变化, 阳光直射和腐蚀性气体, 存放期不超出2年。Capacitors are packaged in Corrugated box, should be stored at temperatures ranging from - 10 to + 40°C, with relative humidity below 75%, drastic temperature changes, direct sunlight and corrosive gases should be avoided. Storage period should not exceed In 2 years