



Metallized Polypropylene Film Interference Suppression Capacitors

金属化聚丙烯膜抑制电磁电源干扰用电容器 (MPX/MKP X2 320VAC--MP2 Series/ MP2 系列)

引用标准 Reference standards

GB/T6346.14-2015/ UL60384-14/VDE0565-1/ CSA E60384-14
IEC60384-14 /EN60384-14/KC60384-14/KC60384-1

结构 Structure

介质：（金属化）聚丙烯膜

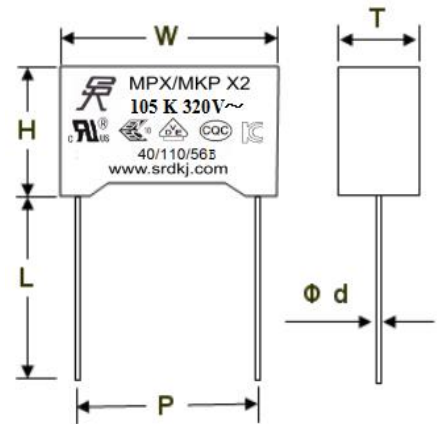
封装：阻燃环氧树脂，符合 UL94 V-0

外壳：阻燃 PBT 塑壳，符合 UL94 V-0

Dielectric: (Metallized) Polypropylene film

Encapsulation: Flame retardant epoxy resin, conforming to UL94 V-0

Shell: Flame retardant PBT plastic shell, conforming to UL94 V-0



典型应用 Typical Application

跨线、抑制突波、交流场合 EMI 滤波；电源开关等。如：灯具、电源等

Interlines, Surge suppression, Across-in-line as EMI filter;

Power switch etc. Such as: Lamps, Power Sources etc.

特点 Features

外观一致性好；有良好自愈性 Good appearance consistency; Good self-healing property;

抗湿性强；高耐温 Good resistance to humidity; Can withstand high temperature;

长寿命，耐过电压优良 Long lifetime; Good ability to withstand surge voltage.

符合 RoHS 及 REACH 环保标准 Compliance with RoHs & REACH requirements.

电性能规范 Performance Specifications

气候类别 Climate category	40/110/56	
阻燃等级 Passive flammability class	B	
额定电压 Rated Voltage	320VAC	
容量误差 Capacitance Tolerance	K: ±10%	
容量范围 Capacitance Range	0.0022μF~4.7μF Test Condition: 20°C, 1KHz, 1Vrms	
耐电压 Withstand Voltage	Terminal to terminal: 4.3U _R (Vdc),5S Terminal to shell: 2140VAC 60S	No breakdown or electric arcing
损耗角 Dissipation factor	≤0.0020 10KHz C _R ≤1.0μF ≤0.0010 1KHz C _R >1.0μF	Test Condition : 20°C 1V
绝缘电阻或时间常数 Insulation Resistance	C _R ≤0.33μF IR≥15000MΩ C _R >0.33μF IR≥5000S	Test Condition : 20°C 100V 1 min
最大脉冲爬升速率 Max. Pulse Rise Time (dV / dt)	P=7.5mm dV / dt = 800V/μs P=10mm dV / dt = 500V/μs P=15mm dV / dt = 400V/μs P=22.5mm dV / dt = 200V/μs P=27.5mm dV / dt = 150V/μs	



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电性能规范 Performance Specifications

稳态湿热 Steady-state Damp-heat Test	温度 Temp.: 40±2℃ 相对湿度 Humidity: 93%RH 持续时间 Duration Time: 56 Days	无可见损伤, 标志清晰 no visible damage, clear mark 绝缘电阻 IR: ≥ 额定值的 50% IR: ≥ 50% of Rated value 容量变化 (相对初始值): Capacitance change: $\Delta C/C \leq \pm 5\%$ 损耗角增加 Dissipation factor: Rise ≤ 0.0080 (10KHz), $C_R \leq 1\mu F$ Rise ≤ 0.0050 (1KHz), $C_R > 1\mu F$
耐久性试验 Endurance Test	温度 Temp.: +110℃, 施加电压: 1.25×额定电压(每小时 增加电压到 1000Vac, 0.1 秒, 1 次) Test Voltage: 1.25 Times Rated Voltage (Rise the voltage to 1000Vac for .01s once per hours) 持续时间 Duration Time: 1000H	绝缘电阻 Insulation Resistance IR: ≥ 50% of rated value 容量变化 (相对初始值): $\Delta C/C \leq \pm 10\%$ Capacitance change: $\Delta C/C \leq \pm 10\%$

安规认证 Safety Certification

认证标志 Certification	额定电压 Rated Voltage	证书号码 Certificate No.	引用标准 Reference standard	认证国家 Certification Country
UL/CUL	320VAC	E319615	UL60384-14 CSA E60384-14	美国、加拿大 America / Canada
VDE	320VAC	40028812	EN60384-14	德国 Germany
ENEC	320VAC	40028812	EN60384-14	欧盟 Europe
CQC	320VAC	CQC09001035778	GB/T6346.14-2015	中国 China
KC	320VAC	SU030803- (16001-16005)	KC60384-14	韩国 Korea

产品编码说明 Part No. Description:

15 位产品编码如下:

The Part No. is total 15 digits, details as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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M	P	2	1	0	5	K	3	2	E	4	R	8	*	*
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- Digit 1-3 型号代码 Product Name Code MP2= Class X2 Capacitors
- Digit 4-6 标称容量 Rated Capacitance Value For example : 105 = $10 \times 10^5 \text{pF} = 1.0\mu\text{F}$
- Digit 7 容量偏差 Capacitance Tolerance K=±10%
- Digit 8-9 额定电压 Rated Voltage Code 32=320VAC
- Digit 10-11 壳号 Plastic shell code
- Digit 12 塑壳颜色 Plastic Shell Color R = Grey Color with LOGO on the shell top
- Digit 13 线径代码 Line diameter code 6=0.6 8=0.8
- Digit 14-15 成型或内部识别码 Forming Type or Internal Use



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■ 料号明细及尺寸 Part No. List and Dimensions

成品编码 Part No.	等级 Class	电压 Voltage	容量 Capacitance (μF)	尺寸 Dimension (mm)				
				W \pm 0.5	T \pm 0.5	H \pm 0.5	P \pm 0.5	Φ d \pm 0.05
MP2104K32B1R5LC	X2	320VAC	0.1	10	4	9	7.5	0.5
MP2154K32B1R5LC	X2	320VAC	0.15	10	4	9	7.5	0.5
MP2224K32B2R6LC	X2	320VAC	0.22	10	5	11	7.5	0.6
MP2334K32B3R6LC	X2	320VAC	0.33	10	6	12	7.5	0.6
MP2474K32B6R6LC	X2	320VAC	0.47	10	6	16	7.5	0.6
SP2224K32CBR6LC	X2	320VAC	0.22	12.5	4	11	10	0.6
SP2334K32CDR6LC	X2	320VAC	0.33	12.5	5	13	10	0.6
SP2474K32CDR6LC	X2	320VAC	0.47	12.5	5	13	10	0.6
SP2564K32CGR6LC	X2	320VAC	0.56	12.5	6	15.5	10	0.6
SP2684K32CGR6LC	X2	320VAC	0.68	12.5	6	15.5	10	0.6
SP2824K32CKR6LC	X2	320VAC	0.82	12.5	7	17.5	10	0.6
SP2105K32CKR6LC	X2	320VAC	1.0	12.5	7	17.5	10	0.6

说明 Note: “***”表示内部特征码 “***”=Internal use.

We can customize the capacitors according to customers special requirements.