



# 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

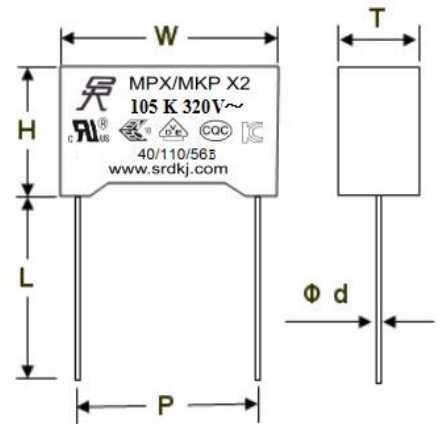
封装：阻燃环氧树脂，符合 UL94 V-0

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 <sub>R</sub> (Vdc),5S Terminal to shell: 2140VAC 60S	No breakdown or electric arcing
损耗角 Dissipation factor	≤0.0020 10KHz C <sub>R</sub> ≤1.0μF ≤0.0010 1KHz C <sub>R</sub> >1.0μF	Test Condition : 20°C 1V
绝缘电阻或时间常数 Insulation Resistance	C <sub>R</sub> ≤0.33μF IR≥15000MΩ C <sub>R</sub> >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 P=37.5mm dV / dt = 80V/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 $\leq 0.0080$ (10KHz), $C_R \leq 1\mu F$ Rise $\leq 0.0050$ (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	*	*
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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 = $10 \times 10^5 \text{pF} = 1.0\mu F$
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 ( $\mu$ F)	尺寸 Dimension (mm)				
				W $\pm$ 0.5	T $\pm$ 0.5	H $\pm$ 0.5	P $\pm$ 0.5	$\Phi$ d $\pm$ 0.05
MP2222K32B2R6**	X2	320VAC	0.0022	10	5	11	7.5	0.6
MP2272K32B2R6**	X2	320VAC	0.0027	10	5	11	7.5	0.6
MP2332K32B2R6**	X2	320VAC	0.0033	10	5	11	7.5	0.6
MP2392K32B2R6**	X2	320VAC	0.0039	10	5	11	7.5	0.6
MP2472K32B2R6**	X2	320VAC	0.0047	10	5	11	7.5	0.6
MP2562K32B2R6**	X2	320VAC	0.0056	10	5	11	7.5	0.6
MP2682K32B2R6**	X2	320VAC	0.0068	10	5	11	7.5	0.6
MP2822K32B2R6**	X2	320VAC	0.0082	10	5	11	7.5	0.6
MP2103K32B2R6**	X2	320VAC	0.01	10	5	11	7.5	0.6
MP2123K32B2R6**	X2	320VAC	0.012	10	5	11	7.5	0.6
MP2153K32B2R6**	X2	320VAC	0.015	10	5	11	7.5	0.6
MP2183K32B2R6**	X2	320VAC	0.018	10	5	11	7.5	0.6
MP2223K32B2R6**	X2	320VAC	0.022	10	5	11	7.5	0.6
MP2273K32B2R6**	X2	320VAC	0.027	10	5	11	7.5	0.6
MP2333K32B2R6**	X2	320VAC	0.033	10	5	11	7.5	0.6
MP2393K32B2R6**	X2	320VAC	0.039	10	5	11	7.5	0.6
MP2473K32B2R6**	X2	320VAC	0.047	10	5	11	7.5	0.6
MP2393K32B3R6**	X2	320VAC	0.039	10	6	12	7.5	0.6
MP2473K32B3R6**	X2	320VAC	0.047	10	6	12	7.5	0.6
MP2563K32B3R6**	X2	320VAC	0.056	10	6	12	7.5	0.6
MP2683K32B3R6**	X2	320VAC	0.068	10	6	12	7.5	0.6
MP2222K32C2R6**	X2	320VAC	0.0022	13	5	11	10	0.6
MP2272K32C2R6**	X2	320VAC	0.0027	13	5	11	10	0.6
MP2332K32C2R6**	X2	320VAC	0.0033	13	5	11	10	0.6
MP2392K32C2R6**	X2	320VAC	0.0039	13	5	11	10	0.6
MP2472K32C2R6**	X2	320VAC	0.0047	13	5	11	10	0.6
MP2562K32C2R6**	X2	320VAC	0.0056	13	5	11	10	0.6
MP2682K32C2R6**	X2	320VAC	0.0068	13	5	11	10	0.6
MP2822K32C2R6**	X2	320VAC	0.0082	13	5	11	10	0.6
MP2103K32C2R6**	X2	320VAC	0.01	13	5	11	10	0.6
MP2123K32C2R6**	X2	320VAC	0.012	13	5	11	10	0.6
MP2153K32C2R6**	X2	320VAC	0.015	13	5	11	10	0.6
MP2183K32C2R6**	X2	320VAC	0.018	13	5	11	10	0.6

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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 ( $\mu$ F)	尺寸 Dimension (mm)				
				W $\pm$ 0.5	T $\pm$ 0.5	H $\pm$ 0.5	P $\pm$ 0.5	$\Phi$ d $\pm$ 0.5
MP2223K32C2R6**	X2	320VAC	0.022	13	5	11	10	0.6
MP2273K32C2R6**	X2	320VAC	0.027	13	5	11	10	0.6
MP2333K32C2R6**	X2	320VAC	0.033	13	5	11	10	0.6
MP2393K32C2R6**	X2	320VAC	0.039	13	5	11	10	0.6
MP2473K32C2R6**	X2	320VAC	0.047	13	5	11	10	0.6
MP2563K32C2R6**	X2	320VAC	0.056	13	5	11	10	0.6
MP2683K32C2R6**	X2	320VAC	0.068	13	5	11	10	0.6
MP2104K32C2R6**	X2	320VAC	0.1	13	5	11	10	0.6
MP2683K32C3R6**	X2	320VAC	0.068	13	6	12	10	0.6
MP2104K32C3R6**	X2	320VAC	0.1	13	6	12	10	0.6
MP2154K32C3R6**	X2	320VAC	0.15	13	6	12	10	0.6
MP2224K32C5R6**	X2	320VAC	0.22	13	7.8	13.8	10	0.6
MP2563K32CDR6**	X2	320VAC	0.056	12.5	5	13	10	0.6
MP2823K32CDR6**	X2	320VAC	0.082	12.5	5	13	10	0.6
MP2823K32CGR6**	X2	320VAC	0.082	12.5	6	15.5	10	0.6
MP2104K32CGR6**	X2	320VAC	0.1	12.5	6	15.5	10	0.6
MP2124K32CGR6**	X2	320VAC	0.12	12.5	6	15.5	10	0.6
MP2154K32CGR6**	X2	320VAC	0.15	12.5	6	15.5	10	0.6
MP2184K32CKR6**	X2	320VAC	0.18	12.5	7	17.5	10	0.6
MP2184K32CGR6**	X2	320VAC	0.18	12.5	6	15.5	10	0.6
MP2224K32CKR6**	X2	320VAC	0.22	12.5	7	17.5	10	0.6
MP2274K32CKR6**	X2	320VAC	0.27	12.5	7	17.5	10	0.6
MP2274K32CNR6**	X2	320VAC	0.27	12.5	8	18.5	10	0.6
MP2334K32CNR6**	X2	320VAC	0.33	12.5	8	18.5	10	0.6
MP2334K32CRR6**	X2	320VAC	0.33	12.5	9	19.5	10	0.6
MP2104K32D1R6**	X2	320VAC	0.1	18	5	11	15	0.6
MP2124K32D1R6**	X2	320VAC	0.12	18	5	11	15	0.6
MP2104K32D2R8**	X2	320VAC	0.1	18	6	12	15	0.8
MP2124K32D2R8**	X2	320VAC	0.12	18	6	12	15	0.8
MP2184K32D2R8**	X2	320VAC	0.18	18	6	12	15	0.8
MP2334K32D3R8**	X2	320VAC	0.33	18	7.5	13.5	15	0.8
MP2224K32D4R8**	X2	320VAC	0.22	18	8.4	14.5	15	0.8
MP2334K32D4R8**	X2	320VAC	0.33	18	8.4	14.5	15	0.8

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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 ( $\mu$ F)	尺寸 Dimension (mm)				
				W $\pm$ 0.5	T $\pm$ 0.5	H $\pm$ 0.5	P $\pm$ 0.5	$\Phi$ d $\pm$ 0.5
MP2474K32D4R8**	X2	320VAC	0.47	18	8.4	14.5	15	0.8
MP2474K32D6R8**	X2	320VAC	0.47	18	10	16	15	0.8
MP2684K32D6R8**	X2	320VAC	0.68	18	10	16	15	0.8
MP2474K32D8R8**	X2	320VAC	0.47	18	11.2	19.2	15	0.8
MP2684K32D8R8**	X2	320VAC	0.68	18	11.2	19.2	15	0.8
MP2154K32DBR6**	X2	320VAC	0.15	17.5	5	13	15	0.6
MP2224K32DBR6**	X2	320VAC	0.22	17.5	5	13	15	0.6
MP2184K32DDR8**	X2	320VAC	0.18	17.5	6	15.5	15	0.8
MP2224K32DDR8**	X2	320VAC	0.22	17.5	6	15.5	15	0.8
MP2274K32DDR8**	X2	320VAC	0.27	17.5	6	15.5	15	0.8
MP2334K32DDR8**	X2	320VAC	0.33	17.5	6	15.5	15	0.8
MP2394K32DDR8**	X2	320VAC	0.39	17.5	6	15.5	15	0.8
MP2224K32DGR8**	X2	320VAC	0.22	17.5	7	17.5	15	0.8
MP2274K32DGR8**	X2	320VAC	0.27	17.5	7	17.5	15	0.8
MP2334K32DGR8**	X2	320VAC	0.33	17.5	7	17.5	15	0.8
MP2474K32DGR8**	X2	320VAC	0.47	17.5	7	17.5	15	0.8
MP2334K32DKR8**	X2	320VAC	0.33	17.5	8	18.5	15	0.8
MP2394K32DKR8**	X2	320VAC	0.39	17.5	8	18.5	15	0.8
MP2474K32DKR8**	X2	320VAC	0.47	17.5	8	18.5	15	0.8
MP2564K32DKR8**	X2	320VAC	0.56	17.5	8	18.5	15	0.8
MP2684K32DKR8**	X2	320VAC	0.68	17.5	8	18.5	15	0.8
MP2394K32DNR8**	X2	320VAC	0.39	17.5	9	19.5	15	0.8
MP2564K32DNR8**	X2	320VAC	0.56	17.5	9	19.5	15	0.8
MP2564K32DRR8**	X2	320VAC	0.56	17.5	10	22.5	15	0.8
MP2684K32DRR8**	X2	320VAC	0.68	17.5	10	22.5	15	0.8
MP2684K32DUR8**	X2	320VAC	0.68	17.5	11	26.5	15	0.8
MP2824K32DUR8**	X2	320VAC	0.82	17.5	11	26.5	15	0.8
MP2105K32DXR8**	X2	320VAC	1.0	17.5	12	24.5	15	0.8
MP2334K32E2R8**	X2	320VAC	0.33	26.5	7	16.5	22.5	0.8
MP2394K32E2R8**	X2	320VAC	0.39	26.5	7	16.5	22.5	0.8
MP2474K32E2R8**	X2	320VAC	0.47	26.5	7	16.5	22.5	0.8
MP2334K32E3R8**	X2	320VAC	0.33	26.5	8.5	17	22.5	0.8
MP2394K32E3R8**	X2	320VAC	0.39	26.5	8.5	17	22.5	0.8

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成品编码 Part No.	等级 Class	电压 Voltage	容量 Capacitance ( $\mu$ F)	尺寸 Dimension (mm)				
				W $\pm$ 0.5	T $\pm$ 0.5	H $\pm$ 0.5	P $\pm$ 0.5	$\Phi$ d $\pm$ 0.5
MP2474K32E3R8**	X2	320VAC	0.47	26.5	8.5	17	22.5	0.8
MP2564K32E3R8**	X2	320VAC	0.56	26.5	8.5	17	22.5	0.8
MP2684K32E3R8**	X2	320VAC	0.68	26.5	8.5	17	22.5	0.8
MP2474K32E4R8**	X2	320VAC	0.47	26.5	10	19	22.5	0.8
MP2564K32E4R8**	X2	320VAC	0.56	26.5	10	19	22.5	0.8
MP2684K32E4R8**	X2	320VAC	0.68	26.5	10	19	22.5	0.8
MP2824K32E4R8**	X2	320VAC	0.82	26.5	10	19	22.5	0.8
MP2105K32E4R8**	X2	320VAC	1.0	26.5	10	19	22.5	0.8
MP2824K32E5R8**	X2	320VAC	0.82	26.5	11	20	22.5	0.8
MP2105K32E5R8**	X2	320VAC	1.0	26.5	11	20	22.5	0.8
MP2105K32E6R8**	X2	320VAC	1.0	26.5	12	21.5	22.5	0.8
MP2125K32E6R8**	X2	320VAC	1.2	26.5	12	21.5	22.5	0.8
MP2155K32E7R8**	X2	320VAC	1.5	26.5	13	23	22.5	0.8
MP2105K32F1R8**	X2	320VAC	1.0	31.5	10.8	19.5	27.5	0.8
MP2125K32F1R8**	X2	320VAC	1.2	31.5	10.8	19.5	27.5	0.8
MP2125K32F2R8**	X2	320VAC	1.2	31.5	13	21.5	27.5	0.8
MP2155K32F2R8**	X2	320VAC	1.5	31.5	13	21.5	27.5	0.8
MP2185K32F2R8**	X2	320VAC	1.8	31.5	13	21.5	27.5	0.8
MP2155K32F3R8**	X2	320VAC	1.5	31	14	25	27.5	0.8
MP2185K32F3R8**	X2	320VAC	1.8	31	14	25	27.5	0.8
MP2205K32F3R8**	X2	320VAC	2.0	31	14	25	27.5	0.8
MP2225K32F3R8**	X2	320VAC	2.2	31	14	25	27.5	0.8
MP2205K32F4R8**	X2	320VAC	2.0	31.5	16	25.5	27.5	0.8
MP2255K32F4R8**	X2	320VAC	2.5	31.5	16	25.5	27.5	0.8
MP2275K32F4R8**	X2	320VAC	2.7	31.5	16	25.5	27.5	0.8
MP2305K32F4R8**	X2	320VAC	3.0	31.5	16	25.5	27.5	0.8
MP2225K32F5R8**	X2	320VAC	2.2	31.5	16	30	27.5	0.8
MP2255K32F5R8**	X2	320VAC	2.5	31.5	16	30	27.5	0.8
MP2335K32F5R8**	X2	320VAC	3.3	31.5	16	30	27.5	0.8
MP2305K32F6R8**	X2	320VAC	3.0	31	18	33	27.5	0.8
MP2335K32F6R8**	X2	320VAC	3.3	31	18	33	27.5	0.8
MP2355K32F6R8**	X2	320VAC	3.5	31	18	33	27.5	0.8
MP2395K32F6R8**	X2	320VAC	3.9	31	18	33	27.5	0.8

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				W $\pm$ 0.5	T $\pm$ 0.5	H $\pm$ 0.5	P $\pm$ 0.5	$\Phi$ d $\pm$ 0.5
MP2405K32F6R8**	X2	320VAC	4.0	31	18	33	27.5	0.8
MP2455K32F6R8**	X2	320VAC	4.5	31	18	33	27.5	0.8
MP2475K32F6R8**	X2	320VAC	4.7	31	18	33	27.5	0.8
MP2505K32F6R8**	X2	320VAC	5.0	31	18	33	27.5	0.8
MP2275K32F9R8**	X2	320VAC	2.7	31.5	18	28	27.5	0.8
MP2335K32F9R8**	X2	320VAC	3.3	31.5	18	28	27.5	0.8
MP2355K32F9R8**	X2	320VAC	3.5	31.5	18	28	27.5	0.8
MP2155K32S0R1**	X2	320VAC	1.5	41	11	22	37.5	1.0
MP2185K32S0R1**	X2	320VAC	1.8	41	11	22	37.5	1.0
MP2205K32S0R1**	X2	320VAC	2.0	41	11	22	37.5	1.0
MP2185K32S1R1**	X2	320VAC	1.8	41	12	26	37.5	1.0
MP2205K32S1R1**	X2	320VAC	2.0	41	12	26	37.5	1.0
MP2225K32S1R1**	X2	320VAC	2.2	41	12	26	37.5	1.0
MP2255K32S1R1**	X2	320VAC	2.5	41	12	26	37.5	1.0
MP2275K32S1R1**	X2	320VAC	2.7	41	12	26	37.5	1.0
MP2225K32S2R1**	X2	320VAC	2.2	41	14	28	37.5	1.0
MP2255K32S2R1**	X2	320VAC	2.5	41	14	28	37.5	1.0
MP2275K32S2R1**	X2	320VAC	2.7	41	14	28	37.5	1.0
MP2305K32S2R1**	X2	320VAC	3.0	41	14	28	37.5	1.0
MP2335K32S2R1**	X2	320VAC	3.3	41	14	28	37.5	1.0
MP2355K32S2R1**	X2	320VAC	3.5	41	14	28	37.5	1.0
MP2305K32S3R1**	X2	320VAC	3.0	41	16	30	37.5	1.0
MP2335K32S3R1**	X2	320VAC	3.3	41	16	30	37.5	1.0
MP2355K32S3R1**	X2	320VAC	3.5	41	16	30	37.5	1.0
MP2395K32S3R1**	X2	320VAC	3.9	41	16	30	37.5	1.0
MP2405K32S3R1**	X2	320VAC	4.0	41	16	30	37.5	1.0
MP2455K32S3R1**	X2	320VAC	4.5	41	16	30	37.5	1.0
MP2475K32S3R1**	X2	320VAC	4.7	41	16	30	37.5	1.0

说明 Note:“\*\*\*”表示内部特征码

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

“\*\*\*”=Internal use.

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