



# 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

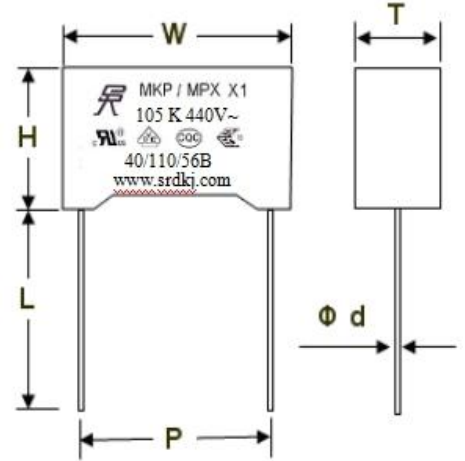
### (MP1-Class X1 440VAC Series)

#### 引用标准 Reference standards

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

#### 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；耐高温 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	440VAC	
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: 2380VAC 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=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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### (MP1-Class X1 440VAC Series)

#### 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	440VAC	E319615	UL60384-14	美国、加拿大 America / Canada
VDE	440VAC	40025029	EN60384-14	德国 Germany
ENEC	440VAC	40025029	EN60384-14	欧盟 Europe
CQC	440VAC	CQC09001032856	GB/T6346.14-2015	中国 China

#### 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

M	P	1	1	0	4	K	4	4	D	6	R	8	*	*
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Digit 1-3	型号代码 Product Name Code	MP1= Class X1 Capacitors
Digit 4-6	标称容量 Rated Capacitance Value	For example : 104= $10 \times 10^4 \mu F = 0.1 \mu F$
Digit 7	容量偏差 Capacitance Tolerance	K=±10%
Digit 8-9	额定电压 Rated Voltage Code	44=440VAC
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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### (MP1-Class X1 440VAC Series)

#### 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
MP1222K44B2R6**	X1	440VAC	0.0022	10	5	11	7.5	0.6
MP1272K44B2R6**	X1	440VAC	0.0027	10	5	11	7.5	0.6
MP1332K44B2R6**	X1	440VAC	0.0033	10	5	11	7.5	0.6
MP1392K44B2R6**	X1	440VAC	0.0039	10	5	11	7.5	0.6
MP1472K44B2R6**	X1	440VAC	0.0047	10	5	11	7.5	0.6
MP1562K44B2R6**	X1	440VAC	0.0056	10	5	11	7.5	0.6
MP1682K44B2R6**	X1	440VAC	0.0068	10	5	11	7.5	0.6
MP1822K44B2R6**	X1	440VAC	0.0082	10	5	11	7.5	0.6
MP1103K44B2R6**	X1	440VAC	0.01	10	5	11	7.5	0.6
MP1123K44B3R6**	X1	440VAC	0.012	10	6	12	7.5	0.6
MP1222K44C2R6**	X1	440VAC	0.0022	13	5	11	10	0.6
MP1272K44C2R6**	X1	440VAC	0.0027	13	5	11	10	0.6
MP1332K44C2R6**	X1	440VAC	0.0033	13	5	11	10	0.6
MP1392K44C2R6**	X1	440VAC	0.0039	13	5	11	10	0.6
MP1472K44C2R6**	X1	440VAC	0.0047	13	5	11	10	0.6
MP1562K44C2R6**	X1	440VAC	0.0056	13	5	11	10	0.6
MP1682K44C2R6**	X1	440VAC	0.0068	13	5	11	10	0.6
MP1822K44C2R6**	X1	440VAC	0.0082	13	5	11	10	0.6
MP1103K44C2R6**	X1	440VAC	0.01	13	5	11	10	0.6
MP1123K44C2R6**	X1	440VAC	0.012	13	5	11	10	0.6
MP1153K44C2R6**	X1	440VAC	0.015	13	5	11	10	0.6
MP1183K44C2R6**	X1	440VAC	0.018	13	5	11	10	0.6
MP1273K44C3R6**	X1	440VAC	0.027	13	6	12	10	0.6
MP1223K44CDR6**	X1	440VAC	0.023	12.5	5	13	10	0.6
MP1333K44CGR6**	X1	440VAC	0.033	12.5	6	15.5	10	0.6
MP1103K44D2R8**	X1	440VAC	0.01	18	6	12	15	0.8
MP1123K44D2R8**	X1	440VAC	0.012	18	6	12	15	0.8
MP1153K44D2R8**	X1	440VAC	0.015	18	6	12	15	0.8
MP1183K44D2R8**	X1	440VAC	0.018	18	6	12	15	0.8
MP1223K44D2R8**	X1	440VAC	0.022	18	6	12	15	0.8
MP1273K44D2R8**	X1	440VAC	0.027	18	6	12	15	0.8
MP1333K44D2R8**	X1	440VAC	0.033	18	6	12	15	0.8
MP1393K44D2R8**	X1	440VAC	0.039	18	6	12	15	0.8
MP1473K44DDR8**	X1	440VAC	0.047	17.5	6	15.5	15	0.8

说明 Note: “\*\*”表示内部特征码

“\*\*”=Internal use.



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**(MP1-Class X1 440VAC Series)**

■ 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
MP1563K44DDR8**	X1	440VAC	0.056	17.5	6	15.5	15	0.8
MP1683K44DGR8**	X1	440VAC	0.068	17.5	7	17.5	15	0.8
MP1823K44DGR8**	X1	440VAC	0.082	17.5	7	17.5	15	0.8
MP1104K44DKR8**	X1	440VAC	0.1	17.5	8	18.5	15	0.8
MP1124K44DNR8**	X1	440VAC	0.12	17.5	9	19.5	15	0.8
MP1154K44DRR8**	X1	440VAC	0.15	17.5	10	22.5	15	0.8
MP1184K44DRR8**	X1	440VAC	0.18	17.5	10	22.5	15	0.8
MP1224K44DUR8**	X1	440VAC	0.22	17.5	11	23.5	15	0.8
MP1393K44E2R8**	X1	440VAC	0.039	26.5	7	16.5	22.5	0.8
MP1473K44E2R8**	X1	440VAC	0.047	26.5	7	16.5	22.5	0.8
MP1563K44E2R8**	X1	440VAC	0.056	26.5	7	16.5	22.5	0.8
MP1683K44E2R8**	X1	440VAC	0.068	26.5	7	16.5	22.5	0.8
MP1823K44E2R8**	X1	440VAC	0.082	26.5	7	16.5	22.5	0.8
MP1104K44E2R8**	X1	440VAC	0.1	26.5	7	16.5	22.5	0.8
MP1124K44E2R8**	X1	440VAC	0.12	26.5	7	16.5	22.5	0.8
MP1154K44E2R8**	X1	440VAC	0.15	26.5	7	16.5	22.5	0.8
MP1184K44E3R8**	X1	440VAC	0.18	26.5	8.5	17	22.5	0.8
MP1224K44E3R8**	X1	440VAC	0.22	26.5	8.5	17	22.5	0.8
MP1274K44E4R8**	X1	440VAC	0.27	26.5	10	19	22.5	0.8
MP1334K44E5R8**	X1	440VAC	0.33	26.5	11	20	22.5	0.8
MP1394K44E6R8**	X1	440VAC	0.39	26.5	12	21.5	22.5	0.8
MP1474K44E7R8**	X1	440VAC	0.47	26.5	13	23	22.5	0.8
MP1154K44F1R8**	X1	440VAC	0.15	31.5	10.8	19.5	27.5	0.8
MP1184K44F1R8**	X1	440VAC	0.18	31.5	10.8	19.5	27.5	0.8
MP1224K44F1R8**	X1	440VAC	0.22	31.5	10.8	19.5	27.5	0.8
MP1274K44F1R8**	X1	440VAC	0.27	31.5	10.8	19.5	27.5	0.8
MP1334K44F1R8**	X1	440VAC	0.33	31.5	10.8	19.5	27.5	0.8
MP1394K44F1R8**	X1	440VAC	0.39	31.5	10.8	19.5	27.5	0.8
MP1474K44F2R8**	X1	440VAC	0.47	31.5	13	21.5	27.5	0.8
MP1564K44F2R8**	X1	440VAC	0.56	31.5	13	21.5	27.5	0.8
MP1684K44F3R8**	X1	440VAC	0.68	31	14	25	27.5	0.8
MP1824K44F4R8**	X1	440VAC	0.82	31.5	16	25.5	27.5	0.8
MP1105K44F5R8**	X1	440VAC	1.0	31.5	16	30	27.5	0.8

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**(MP1-Class X1 440VAC Series)**

■ 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
MP1125K44F6R8**	X1	440VAC	1.2	31	18	33	27.5	0.8
MP1155K44F6R8**	X1	440VAC	1.5	31	18	33	27.5	0.8
MP1334K44S0R1**	X1	440VAC	0.33	41	11	22	37.5	1.0
MP1394K44S0R1**	X1	440VAC	0.39	41	11	22	37.5	1.0
MP1474K44S0R1**	X1	440VAC	0.47	41	11	22	37.5	1.0
MP1564K44S0R1**	X1	440VAC	0.56	41	11	22	37.5	1.0
MP1684K44S0R1**	X1	440VAC	0.68	41	11	22	37.5	1.0
MP1824K44S1R1**	X1	440VAC	0.82	41	12	26	37.5	1.0
MP1105K44S1R1**	X1	440VAC	1.0	41	12	26	37.5	1.0
MP1125K44S2R1**	X1	440VAC	1.2	41	14	28	37.5	1.0
MP1155K44S3R1**	X1	440VAC	1.5	41	16	30	37.5	1.0
MP1185K44S4R1**	X1	440VAC	1.8	41	17	32	37.5	1.0
MP1205K44S5R1**	X1	440VAC	2.0	41	18.5	33.5	37.5	1.0
MP1225K44S5R1**	X1	440VAC	2.2	41	18.5	33.5	37.5	1.0
MP1255K44S6R1**	X1	440VAC	2.5	41	22	37	37.5	1.0
MP1275K44S6R1**	X1	440VAC	2.7	41	22	37	37.5	1.0
MP1305K44S7R1**	X1	440VAC	3.0	41	26	41	37.5	1.0
MP1335K44S7R1**	X1	440VAC	3.3	41	26	41	37.5	1.0
MP1355K44S7R1**	X1	440VAC	3.5	41	26	41	37.5	1.0
MP1395K44S7R1**	X1	440VAC	3.9	41	26	41	37.5	1.0
MP1405K44S8R1**	X1	440VAC	4.0	41	28	43	37.5	1.0
MP1455K44S9R1**	X1	440VAC	4.5	42	30	45	37.5	1.0
MP1475K44S9R1**	X1	440VAC	4.7	42	30	45	37.5	1.0

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Note: We can customize the capacitors according to customers special requirements.

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