

## Metallized Polypropylene Film Interference Suppression Capacitors-Class X1

### Structure

- Dielectric: Polypropylene film.
- Electrode: Special process metal vacuum evaporation layer.
- Encapsulate: Plastic case (UL94 V-0), Flame retardant epoxy resin sealing.

### Typical Application




- Across the line, Surge suppression, EMI filtering in AC occasion; Power switch etc. E.g.: Lamps, Power sources, etc.

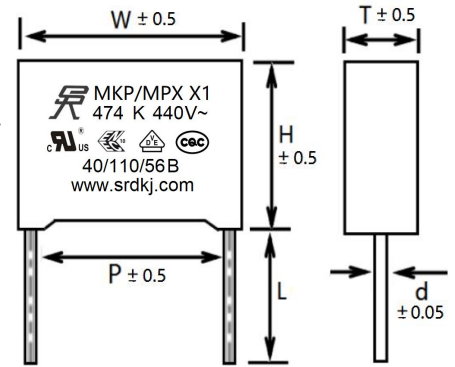
### Characteristics

- Good appearance consistency; good self-healing property; strong resistance to humidity; can withstand high current; long lifetime; excellent overvoltage resistance.

### Conform to RoHS standards

### Safety Certificate

Safety Certificate	Certified Country	Certificate No.	Reference Standard
	USA, Canada	E528513	UL60384-14 CSA E60384-1:14
	Germany, EU	40056347	EN60384-14 VDE 0565-1-1/A1
	China	CQC22001364708	GB/T6346.14-2015



### Technical Parameter

Climatic Category	40/110/56B	
Operating Temperature Range	-40°C~110°C	
Rated Voltage	300/320/330/350/380/440Vac (50/60Hz)	
Capacitance Range	0.001μF ~ 4.7μF	
Capacitance Tolerance	J (±5%)、K (±10%)、M (±20%)	
Voltage Proof	Between Terminals	4.3U <sub>R</sub> (Vdc), 1min
	Between Terminals To Case	2380Vac, 1min
Dissipation Factor	≤0.0010 (1kHz)	20°C, 1V
Insulation Resistance	C <sub>R</sub> ≤0.33μF, R ≥15000MΩ	20°C, 100V, 1min
	C <sub>R</sub> >0.33μF, RC ≥5000S	
Note: Products capacitance can be customized. Details specific parameters are according to Approval Sheet.		

## Metallized Polypropylene Film Interference Suppression Capacitors-Class X1

### Part Number System

The 15 digits part number is formed as follow:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

M P 1 4 7 4 K 4 4 E 7 R 8 0 0

Digit 1 to 3	Series Code: MP1 = X1
Digit 4 to 6	Rated Capacitance Value: 474=47x10 <sup>4</sup> pF=0.47μF
Digit 7	Capacitance Tolerance: J=±5%、K=±10%、M= ±20%
Digit 8 to 9	A.C. Rated Voltage: 30=300Vac、32=320Vac、33=330Vac 35=350Vac、38=380Vac、44=440Vac
Digit 10 to 11	Dimensions Code: See The Dimension Comparison Table
Digit 12	Color Code: R - Gray; X - Yellow
Digit 13	Lead-wire Diameter Code: 5=0.5、6=0.6、8=0.8、1=1.0
Digit 14 to 15	Internal Recognition Code

### Dimensions (mm) (Rated Voltage: 300/320/330/350/380/440Vac)

μF	Part Number	W	T	H	P	d	μF	Part Number	W	T	H	P	d
0.001	MP1102K**C2R600	13	5	11	10	0.6	0.0033	MP1332K**B2R600	10	5	11	7.5	0.6
0.0012	MP1122K**B2R600	10	5	11	7.5	0.6	0.0033	MP1332K**B1R500	10	4	9	7.5	0.5
0.0012	MP1122K**B1R500	10	4	9	7.5	0.5	0.0033	MP1332K**C2R600	13	5	11	10	0.6
0.0012	MP1122K**C2R600	13	5	11	10	0.6	0.0033	MP1332K**C1R600	13	4	9	10	0.6
0.0012	MP1122K**C1R600	13	4	9	10	0.6	0.0039	MP1392K**B2R600	10	5	11	7.5	0.6
0.0015	MP1152K**B2R600	10	5	11	7.5	0.6	0.0039	MP1392K**B1R500	10	4	9	7.5	0.5
0.0015	MP1152K**B1R500	10	4	9	7.5	0.5	0.0039	MP1392K**C2R600	13	5	11	10	0.6
0.0015	MP1152K**C2R600	13	5	11	10	0.6	0.0039	MP1392K**C1R600	13	4	9	10	0.6
0.0015	MP1152K**C1R600	13	4	9	10	0.6	0.0047	MP1472K**B2R600	10	5	11	7.5	0.6
0.0018	MP1182K**B2R600	10	5	11	7.5	0.6	0.0047	MP1472K**B1R500	10	4	9	7.5	0.5
0.0018	MP1182K**B1R500	10	4	9	7.5	0.5	0.0047	MP1472K**C2R600	13	5	11	10	0.6
0.0018	MP1182K**C2R600	13	5	11	10	0.6	0.0047	MP1472K**C1R600	13	4	9	10	0.6
0.0018	MP1182K**C1R600	13	4	9	10	0.6	0.0056	MP1562K**B2R600	10	5	11	7.5	0.6
0.0022	MP1222K**B2R600	10	5	11	7.5	0.6	0.0056	MP1562K**B1R500	10	4	9	7.5	0.5
0.0022	MP1222K**B1R500	10	4	9	7.5	0.5	0.0056	MP1562K**C2R600	13	5	11	10	0.6
0.0022	MP1222K**C2R600	13	5	11	10	0.6	0.0056	MP1562K**C1R600	13	4	9	10	0.6
0.0022	MP1222K**C1R600	13	4	9	10	0.6	0.0068	MP1682K**B2R600	10	5	11	7.5	0.6
0.0027	MP1272K**B2R600	10	5	11	7.5	0.6	0.0068	MP1682K**C2R600	13	5	11	10	0.6
0.0027	MP1272K**B1R500	10	4	9	7.5	0.5	0.0068	MP1682K**C1R600	13	4	9	10	0.6
0.0027	MP1272K**C2R600	13	5	11	10	0.6	0.0082	MP1822K**B2R600	10	5	11	7.5	0.6
0.0027	MP1272K**C1R600	13	4	9	10	0.6	0.0082	MP1822K**C2R600	13	5	11	10	0.6

Note: “\*\*” represents the Rated Voltage, replace it with the corresponding Rated Voltage code.

## Metallized Polypropylene Film Interference Suppression Capacitors-Class X1

### ■ Dimensions (mm) (Rated Voltage: 300/320/330/350/380/440Vac)

μF	Part Number	W	T	H	P	d	μF	Part Number	W	T	H	P	d
0.0082	MP1822K**C1R600	13	4	9	10	0.6	0.22	MP1224K**DUR800	17.5	11.2	23.5	15	0.8
0.01	MP1103K**C2R600	13	5	11	10	0.6	0.22	MP1224K**E3R800	26.5	8.5	17	22.5	0.8
0.01	MP1103K**C1R600	13	4	9	10	0.6	0.22	MP1224K**F1R800	31.5	10.8	19.5	27.5	0.8
0.01	MP1103K**B2R600	10	5	11	7.5	0.6	0.27	MP1274K**E4R800	26.5	10	19	22.5	0.8
0.01	MP1103K**D2R800	18	6	12	15	0.8	0.27	MP1274K**F1R800	31.5	10.8	19.5	27.5	0.8
0.012	MP1123K**C2R600	13	5	11	10	0.6	0.33	MP1334K**E5R800	26.5	11	20	22.5	0.8
0.012	MP1123K**B3R600	10	6	12	7.5	0.6	0.33	MP1334K**F1R800	31.5	10.8	19.5	27.5	0.8
0.012	MP1123K**D2R800	18	6	12	15	0.8	0.33	MP1334K**SOR100	41.5	11	22	37.5	1.0
0.015	MP1153K**C2R600	13	5	11	10	0.6	0.39	MP1394K**E6R800	26	12	21.5	22.5	0.8
0.015	MP1153K**D2R800	18	6	12	15	0.8	0.39	MP1394K**F1R800	31.5	10.8	19.5	27.5	0.8
0.018	MP1183K**C2R600	13	5	11	10	0.6	0.39	MP1394K**SOR100	41.5	11	22	37.5	1.0
0.018	MP1183K**D2R800	18	6	12	15	0.8	0.47	MP1474K**E7R800	26.5	13	23	22.5	0.8
0.022	MP1223K**CDR600	12.5	5.2	13	10	0.6	0.47	MP1474K**F2R800	31.5	13	21.5	27.5	0.8
0.022	MP1223K**D2R800	18	6	12	15	0.8	0.47	MP1474K**SOR100	41.5	11	22	37.5	1.0
0.027	MP1273K**C3R600	13	6	12	10	0.6	0.56	MP1564K**F2R800	31.5	13	21.5	27.5	0.8
0.027	MP1273K**D2R800	18	6	12	15	0.8	0.56	MP1564K**SOR100	41.5	11	22	37.5	1.0
0.033	MP1333K**CGR600	12.5	6.2	15.5	10	0.6	0.68	MP1684K**F3R800	31	14	25	27.5	0.8
0.033	MP1333K**D2R800	18	6	12	15	0.8	0.68	MP1684K**SOR100	41.5	11	22	37.5	1.0
0.039	MP1393K**D2R800	18	6	12	15	0.8	0.82	MP1824K**F4R800	31.5	16	25.5	27.5	0.8
0.039	MP1393K**E2R800	26.5	7	16.5	22.5	0.8	0.82	MP1824K**S1R100	41.5	12	26	37.5	1.0
0.047	MP1473K**DDR800	17.5	6.2	15.5	15	0.8	1.0	MP1105K**F5R800	31.5	16	30	27.5	0.8
0.047	MP1473K**E2R800	26.5	7	16.5	22.5	0.8	1.0	MP1105K**S1R100	41.5	12	26	37.5	1.0
0.056	MP1563K**DDR800	17.5	6.2	15.5	15	0.8	1.2	MP1125K**F6R800	31.5	18	33	27.5	0.8
0.056	MP1563K**E2R800	26.5	7	16.5	22.5	0.8	1.2	MP1125K**S2R100	41.5	14	28	37.5	1.0
0.068	MP1683K**DGR800	17.5	7.2	17.5	15	0.8	1.5	MP1155K**F6R800	31.5	18	33	27.5	0.8
0.068	MP1683K**E2R800	26.5	7	16.5	22.5	0.8	1.5	MP1155K**S3R100	41.5	16	30	37.5	1.0
0.082	MP1823K**DGR800	17.5	7.2	17.5	15	0.8	1.8	MP1185K**S4R100	41.5	17	32	37.5	1.0
0.082	MP1823K**E2R800	26.5	7	16.5	22.5	0.8	2.0	MP1205K**S5R100	41.5	18.5	33.5	37.5	1.0
0.1	MP1104K**DKR800	17.5	8.2	18.5	15	0.8	2.2	MP1225K**S5R100	41.5	18.5	33.5	37.5	1.0
0.1	MP1104K**E2R800	26.5	7	16.5	22.5	0.8	2.5	MP1255K**S6R100	41.5	22	37	37.5	1.0
0.12	MP1124K**DNR800	17.5	9.2	19.5	15	0.8	2.7	MP1275K**S6R100	41.5	22	37	37.5	1.0
0.12	MP1124K**E2R800	26.5	7	16.5	22.5	0.8	3.0	MP1305K**S7R100	41.5	26	41	37.5	1.0
0.15	MP1154K**DRR800	17.5	10.2	22.5	15	0.8	3.3	MP1335K**S7R100	41.5	26	41	37.5	1.0
0.15	MP1154K**E2R800	26.5	7	16.5	22.5	0.8	3.5	MP1355K**S7R100	41.5	26	41	37.5	1.0
0.15	MP1154K**F1R800	31.5	10.8	19.5	27.5	0.8	3.9	MP1395K**S7R100	41.5	26	41	37.5	1.0
0.18	MP1184K**DRR800	17.5	10.2	22.5	15	0.8	4.0	MP1405K**S8R100	41.5	28	43	37.5	1.0
0.18	MP1184K**E3R800	26.5	8.5	17	22.5	0.8	4.5	MP1455K**S9R100	42	30	45	37.5	1.0
0.18	MP1184K**F1R800	31.5	10.8	19.5	27.5	0.8	4.7	MP1475K**S9R100	42	30	45	37.5	1.0

Note: “\*\*” represents the Rated Voltage, replace it with the corresponding Rated Voltage code.