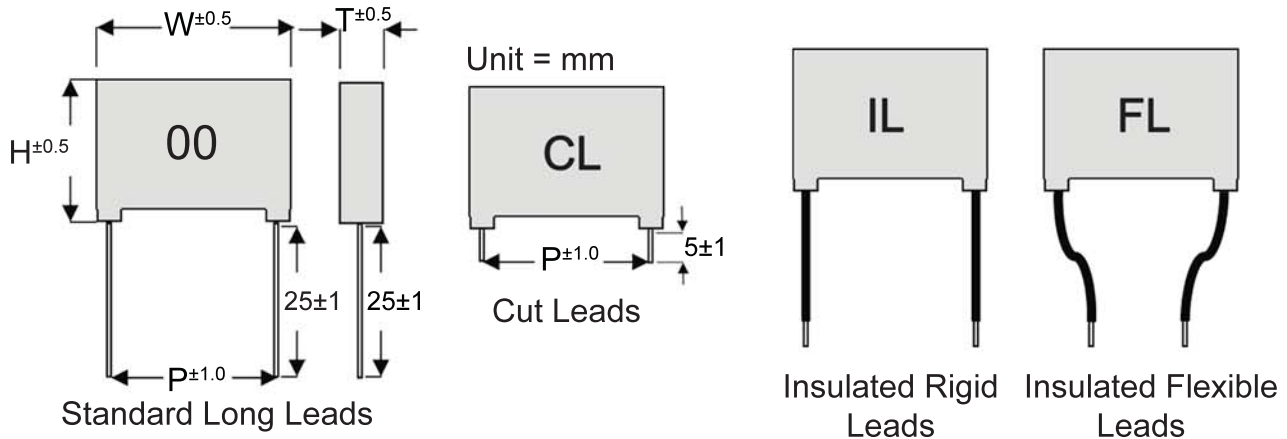


# EMI Suppression Capacitors



## Part Number Nomenclature

**M K P X 1 4 4 0 1 0 5 K 2 7 H 0 0**

**Type:**  
Metallized  
Polypropylene

**Rated Voltage (AC):**  
275 = 250 / 275  
300 = 250 / 300  
310 = 275 / 310  
440 = 440

**Class:**  
X1  
X2  
Y2

**Capacitance Code (pF):**  
First two digits are  
significant digits.  
Third digit is number  
of zeros.

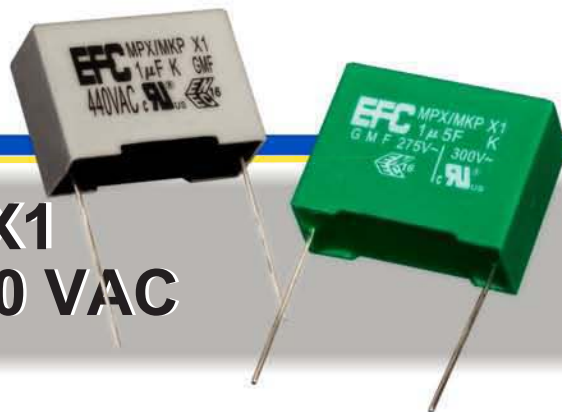
Ex: 105 = 1,000,000pF = 1 $\mu$ F

**Tolerance Code:**  
J -  $\pm 5\%$   
K -  $\pm 10\%$   
M -  $\pm 20\%$

**Color:**  
Y - Yellow  
H - Grey  
G - Green  
B - Blue  
K - Black

**Pitch (mm):**  
07 = 7.5  
10 = 10.0  
15 = 15.0  
22 = 22.5  
27 = 27.5  
37 = 37.5

**Lead Code:**  
00 - Standard Long  
CL - Cut  
IL - Insulated Rigid  
FL - Insulated Flexible



## Series MKPX1 X1 Class 440 / 300 VAC

Non-inductive construction using Metallized Polypropylene dielectric packaged in a UL94V-0 plastic case and epoxy resin. Applications include: EMI suppression, home appliances, lighting, audio and TV circuits, antenna coupling, across the line.



### Specifications

(IEC 60384-14, GB/T14472-98, EN 60384-14, UL60384-14)



#### Temperature Range

-40°C - +110°C.

#### Rated Voltage

300 VAC/440 VAC.

#### Capacitance Range

0.0047µF to 2.2µF - 300 VAC

0.01µF to 2.2µF - 440 VAC

#### Capacitance Tolerance

±10%, ±20%

#### Dissipation

$C_R \leq 1.0\mu\text{F}$  : .3% max at 10KHz

$C_R > 1.0\mu\text{F}$  : .1% max at 1KHz

At 20°C

#### Dv/Dt

Up to 300V/µs - 300 VAC

Up to 440V/µs - 440 VAC

#### Dielectric Withstanding Voltage

2200 VDC 2 sec.

Cap.		300 VAC				
µF	Part #	P	W (max)	H (max)	T (max)	LD (dia)
0.0047	MKPX1300472-10-00	10.0	13.0	9.0	4.0	0.6
0.0056	MKPX1300562-10-00	10.0	13.0	9.0	4.0	0.6
0.0068	MKPX1300682-10-00	10.0	13.0	11.0	4.0	0.6
0.01	MKPX1300103-10-00	10.0	13.0	11.0	4.0	0.6
0.01	MKPX1300103-15-00	15.0	18.0	11.0	5.0	0.8
0.033	MKPX1300333-10-00	10.0	13.0	11.0	5.0	0.6
0.033	MKPX1300333-15-00	15.0	18.0	11.0	5.0	0.8
0.047	MKPX1300473-15-00	15.0	18.0	11.0	5.0	0.8
0.1	MKPX1300104-15-00	15.0	18.0	12.0	6.0	0.8
0.15	MKPX1300154-22-00	22.5	26.5	15.0	6.0	0.8
0.22	MKPX1300224-22-00	22.5	26.5	16.5	7.0	0.8
0.33	MKPX1300334-22-00	15.0	18.0	18.0	10.0	0.8
0.33	MKPX1300334-22-00	22.5	26.5	16.5	7.0	0.8
0.47	MKPX1300474-22-00	22.5	26.5	17.0	8.5	0.8
0.68	MKPX1300684-27-00	27.5	32.0	20.0	11.0	0.8
1.0	MKPX1300105-27-00	27.5	32.0	23.0	13.0	0.8
1.5	MKPX1300155-27-00	27.5	32.0	25.0	14.0	0.8
2.2	MKPX1300225-27-00	27.5	31.5	27.5	17.5	0.8

Cap.		440 VAC				
µF	Part #	P	W (max)	H (max)	T (max)	LD (dia)
0.01	MKPX1440103-10-00	10.0	13.0	9.0	4.0	0.6
0.015	MKPX1440153-10-00	10.0	13.0	11.0	5.0	0.6
0.022	MKPX1440223-10-00	10.0	13.0	12.0	6.0	0.6
0.022	MKPX1440223-15-00	15.0	18.0	11.0	5.0	0.8
0.033	MKPX1440333-15-00	15.0	18.0	11.0	5.0	0.8
0.047	MKPX1440473-15-00	15.0	18.0	11.0	5.0	0.8
0.068	MKPX1440683-15-00	15.0	18.0	12.0	6.0	0.8
0.1	MKPX1440104-15-00	15.0	18.0	13.0	7.0	0.8
0.15	MKPX1440154-15-00	15.0	18.0	14.5	8.5	0.8
0.15	MKPX1440154-22-00	22.5	26.0	15.0	6.0	0.8
0.22	MKPX1440224-15-00	15.0	18.0	16.0	10.0	0.8
0.22	MKPX1440224-22-00	22.5	26.5	16.5	7.0	0.8
0.33	MKPX1440334-22-00	22.5	26.5	17.0	8.5	0.8
0.47	MKPX1440474-22-00	22.5	26.0	20.0	11.0	0.8
0.47	MKPX1440474-27-00	27.5	32.0	20.0	11.0	0.8
0.68	MKPX1440684-27-00	27.5	32.0	22.0	11.0	0.8
1.0	MKPX1440105-27-00	27.5	32.0	25.0	14.0	0.8
1.5	MKPX1440155-27-00	27.5	32.0	27.5	17.5	0.8
2.2	MKPX1440225-31-00	31.0	38.0	32.0	23.0	0.8