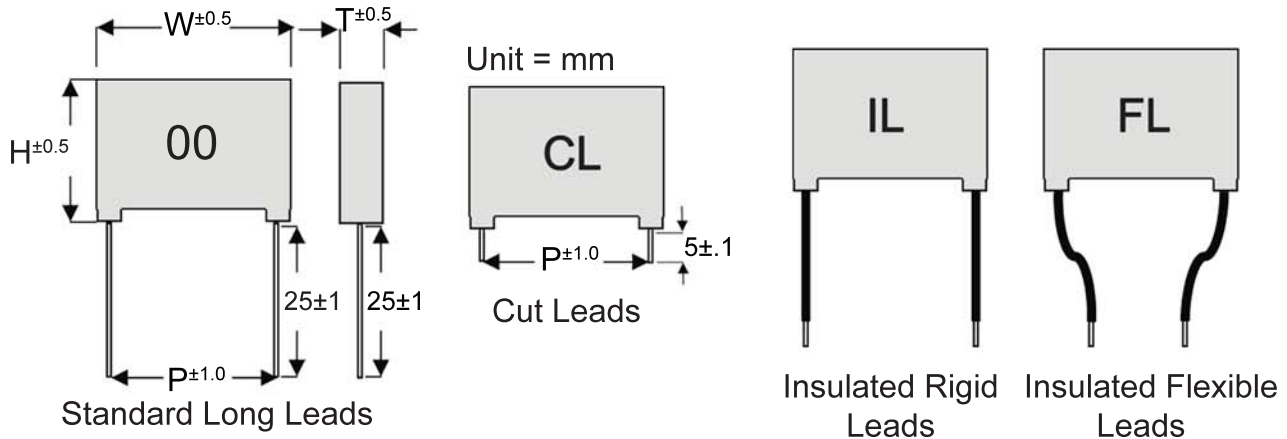


# EMI Suppression Capacitors



## 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

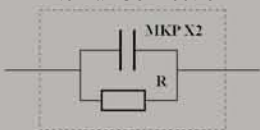
**Tolerance Code:**  
J -  $\pm 5\%$   
K -  $\pm 10\%$   
M -  $\pm 20\%$

**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

Internal Connection



## Series MKP RCP X2 Class 250 VAC / 275 VAC

Metallized Polypropylene dielectric capacitor and parallel with resistor packaged in a UL94V-0 plastic case and epoxy resin. Features include: Low DF & excellent high frequency characteristics, self-healing property and small size, withstand high pulse voltage and interference suppression, and excellent temperature characteristics. Applications include: Electric motor & starting pulse phase-shifting, energy suck in circuit and high frequency and high pulse voltage electronic circuits.

### Specifications

#### Temperature Range

-40°C - +100°C.

#### Rated Voltage

250 VAC / 275 VAC.

#### Capacitance Range

X2: 0.047µF to 1µF  
at 20°C/1KHz

#### Capacitance Tolerance

±5%, ±10%, ±20%

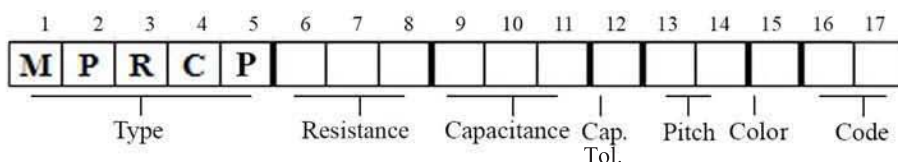
#### Dissipation

$C_R \leq 1.0\mu\text{F}$ : .3% max at 20°C/10KHz.  
 $C_R > 1.0\mu\text{F}$ : .1% max at 20°C/1KHz.

#### Dv/Dt

100V/µs.

| Cap.  | 250 VAC / 275 VAC |     |      |            |            |            |             |
|-------|-------------------|-----|------|------------|------------|------------|-------------|
| µF    | Part #            | MΩ  | P    | W<br>(max) | H<br>(max) | T<br>(max) | LD<br>(dia) |
| 0.047 | MPRCP1M0473-15-00 | 1.0 | 15.0 | 18.0       | 14.5       | 7.5        | 0.6         |
| 0.1   | MPRCP1M0104-15-00 | 1.0 | 15.0 | 18.0       | 14.5       | 8.5        | 0.6         |
| 0.22  | MPRCP1M0224-22-00 | 1.0 | 22.5 | 26.5       | 17.0       | 8.5        | 0.6         |
| 0.33  | MPRCP1M0334-22-00 | 1.0 | 22.5 | 26.5       | 17.0       | 8.5        | 0.6         |
| 0.47  | MPRCP1M0474-27-00 | 1.0 | 27.5 | 32.0       | 20.0       | 11.0       | 0.6         |
| 0.82  | MPRCS1M0824-27-00 | 1.0 | 27.5 | 32.0       | 23.0       | 13.0       | 0.6         |
| 1.0   | MPRCP1M0105-27-00 | 1.0 | 27.5 | 32.0       | 23.0       | 13.0       | 0.6         |



|   |      |   |        |   |       |
|---|------|---|--------|---|-------|
| J | ±5%  | Y | Yellow | B | Blue  |
| K | ±10% | H | Grey   | K | Black |
|   |      | G | Green  |   |       |