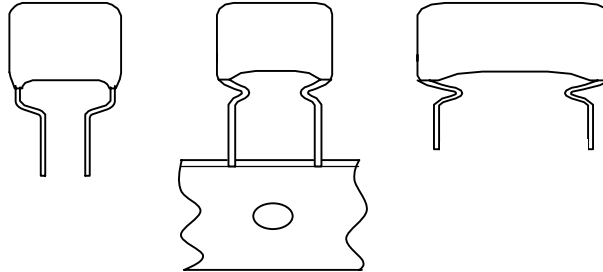


**PFC Input Capacitors****PCMP 472****Metallized Polypropylene film capacitors****(MPP)**

MKP RADIAL LACQUERED CAPACITORS(Dipped Type)-Brown

Pitch 15.0/22.5/27.5mm  
(reduced pitch 7.5mm)**QUICK REFERENCE DATA**

Capacitance range (E6 series)	0.47 to 2.2 $\mu$ F
Capacitance tolerance	$\pm$ 5%, $\pm$ 10%
Rated voltage (DC)	450V, 500V, 550V, 630V
Climatic category	40/105/21
Temperature range	-40 ~ +105
Reference specification	IEC 60384-16
Coating Materials	Qualified in accordance with UL94V-0
Passive flammability category to IEC 60065	Class B

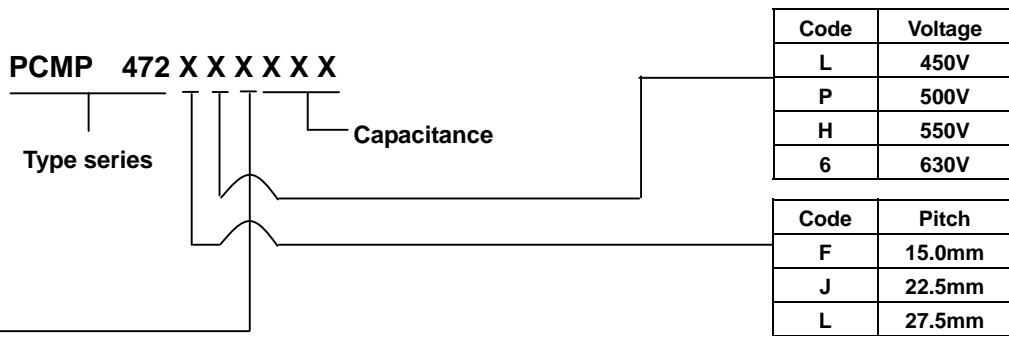
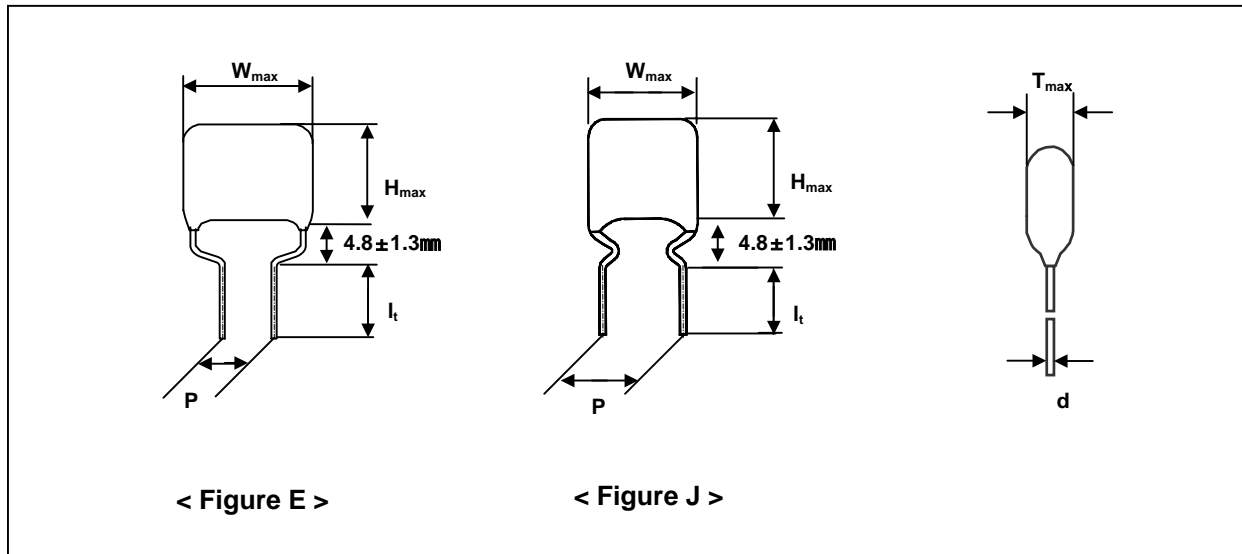
<b>FEATURES</b> <ul style="list-style-type: none"> <li>. Low-noise</li> <li>. Self-healing properties</li> <li>. Low dissipation factor</li> <li>. Low ESR</li> <li>. Cell coated with flame resisting epoxy lacquer</li> <li>. Supplied loose in box</li> </ul>	<b>APPLICATIONS</b> <ul style="list-style-type: none"> <li>. PFC Input Capacitor for LCD/PDP power</li> </ul>
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- Please refer to caution and warning at <http://www.pilkor.co.kr/download/Introductions.pdf> before using these products.

**PFC Input Capacitors**  
**Metallized Polypropylene film capacitors**

**PCMP 472**  
**(MPP)**

**Ordering Information**



Available versions						Product (W <sub>max</sub> )		
Code	Packing method	C-tol.	Lead Figure	Lead length & Height	Hole to hole (P <sub>o</sub> )	18.0	26.0	31.0
						Pitch (P)		
1	Loose in box	±5%	J	l <sub>t</sub> = 4.5±0.5mm	-	15.0	22.5	27.5
2	Loose in box	±10%	J	l <sub>t</sub> = 4.5±0.5mm	-	15.0	22.5	27.5
3	Loose in box	±5%	E	l <sub>t</sub> = 4.5±0.5mm	-	7.5	-	-
4	Loose in box	±10%	E	l <sub>t</sub> = 4.5±0.5mm	-	7.5	-	-

# PFC Input Capacitors

## Metallized Polypropylene film capacitors

# PCMP 472

(MPP)

 $V_{Rdc} = 450\text{ V}$ 

Cap. ( $\mu\text{F}$ )	$W_{\max} \times H_{\max} \times T_{\max}$ (mm)	Mass (g)	CATALOGUE NUMBER
			PCMP 472.....
			loose in box
			It= $4.5 \pm 0.5\text{ mm}$
			C - tol. $\pm 10\%$
Pitch = $15.0 \pm 0.8\text{ mm}$		dt = $0.8 + 0.08 / -0.05\text{ mm}$	
0.47	18.0 x 14.0 x 8.5	-	PCMP 472FL2474
0.56	18.0 x 14.5 x 9.5	-	PCMP 472FL2564
0.68	18.0 x 15.5 x 10.0	-	PCMP 472FL2684
0.82	18.0 x 16.5 x 11.0	-	PCMP 472FL2824
1.0	18.0 x 18.0 x 12.0	-	PCMP 472FL2105
Pitch = $22.5 \pm 0.8\text{ mm}$		dt = $0.8 + 0.08 / -0.05\text{ mm}$	
1.0	26.0 x 17.5 x 9.0	-	PCMP 472JL2105
1.2	26.0 x 18.5 x 10.0	-	PCMP 472JL2125
1.5	26.0 x 19.5 x 11.0	-	PCMP 472JL2155
1.8	26.0 x 20.5 x 12.0	-	PCMP 472JL2185
2.2	26.0 x 21.5 x 13.0	-	PCMP 472JL2225

 $V_{Rdc} = 500\text{ V}$ 

Cap. ( $\mu\text{F}$ )	$W_{\max} \times H_{\max} \times T_{\max}$ (mm)	Mass (g)	CATALOGUE NUMBER
			PCMP 472.....
			loose in box
			It= $4.5 \pm 0.5\text{ mm}$
			C - tol. $\pm 10\%$
Pitch = $15.0 \pm 0.8\text{ mm}$		dt = $0.8 + 0.08 / -0.05\text{ mm}$	
0.47	18.0 x 14.5 x 8.0	-	PCMP 472FP2474
0.56	18.0 x 14.5 x 9.5	-	PCMP 472FP2564
0.68	18.0 x 15.5 x 10.0	-	PCMP 472FP2684
0.82	18.0 x 16.5 x 11.0	-	PCMP 472FP2824
1.0	18.0 x 18.0 x 12.0	-	PCMP 472FP2105
Pitch = $22.5 \pm 0.8\text{ mm}$		dt = $0.8 + 0.08 / -0.05\text{ mm}$	
1.0	26.0 x 17.5 x 9.0	-	PCMP 472JP2105
1.2	26.0 x 18.5 x 10.0	-	PCMP 472JP2125
1.5	26.0 x 19.5 x 11.0	-	PCMP 472JP2155
1.8	26.0 x 20.5 x 12.0	-	PCMP 472JP2185
2.2	26.0 x 21.5 x 13.0	-	PCMP 472JP2225

# PFC Input Capacitors

## Metallized Polypropylene film capacitors

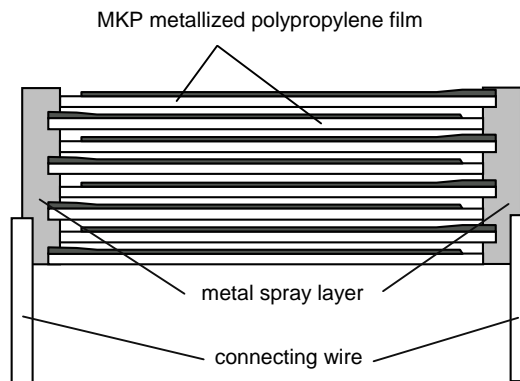
**PCMP 472**  
(MPP)

$V_{Rdc} = 550 \text{ V}$

Cap. ( $\mu\text{F}$ )	$W_{\max} \times H_{\max} \times T_{\max}$ (mm)	Mass (g)	CATALOGUE NUMBER
			PCMP 472.....
			loose in box
			It= $4.5 \pm 0.5 \text{ mm}$ C - tol. $\pm 10\%$
Pitch = $15.0 \pm 0.8 \text{ mm}$		dt = $0.8 + 0.08 / -0.05 \text{ mm}$	
0.47	18.0 x 15.5 x 10.0	-	PCMP 472FH2474
0.56	18.0 x 16.5 x 11.0	-	PCMP 472FH2564
0.68	18.0 x 18.0 x 12.0	-	PCMP 472FH2684
Pitch = $22.5 \pm 0.8 \text{ mm}$		dt = $0.8 + 0.08 / -0.05 \text{ mm}$	
0.68	26.0 x 17.5 x 9.0	-	PCMP 472JH2684
0.82	26.0 x 18.0 x 10.0	-	PCMP 472JH2824
1.0	26.0 x 19.5 x 11.0	-	PCMP 472JH2105

$V_{Rdc} = 630 \text{ V}$

Cap. ( $\mu\text{F}$ )	$W_{\max} \times H_{\max} \times T_{\max}$ (mm)	Mass (g)	CATALOGUE NUMBER
			PCMP 472.....
			loose in box
			It= $4.5 \pm 0.5 \text{ mm}$ C - tol. $\pm 10\%$
Pitch = $15.0 \pm 0.8 \text{ mm}$		dt = $0.8 + 0.08 / -0.05 \text{ mm}$	
0.47	18.0 x 18.0 x 12.0	-	PCMP 472F62474
Pitch = $22.5 \pm 0.8 \text{ mm}$		dt = $0.8 + 0.08 / -0.05 \text{ mm}$	
0.47	26.0 x 17.5 x 9.0	-	PCMP 472J62474
0.56	26.0 x 18.0 x 9.5	-	PCMP 472J62564
0.68	26.0 x 19.0 x 10.5	-	PCMP 472J62684
0.82	26.0 x 20.0 x 11.5	-	PCMP 472J62824
1.0	26.0 x 21.5 x 13.0	-	PCMP 472J62105
Pitch = $27.5 \pm 0.8 \text{ mm}$		dt = $0.8 + 0.08 / -0.05 \text{ mm}$	
1.0	31.0 x 20.0 x 11.5	-	PCMP 472L62105

**CONSTRUCTION**

Description ;

- . Electrode : Metallized film
- . Dielectric : Polypropylene film
- . Flame retardant epoxy-dipped coating (UL 94V-0)
- . Radial leads, tin-coated

**MOUNTING****NORMAL USE**

The capacitors are designed for mounting on printed-circuit boards. The capacitors packed in bandoliers are designed for mounting on printed-circuit boards by means of automatic insertion machines.

**SPECIFIC METHOD OF MOUNTING TO WITHSTAND VIBRATION AND SHOCK**

- . For pitches of 15 mm the capacitors shall be mechanically fixed by the leads
- . For larger pitches the capacitors shall be mounted in the same way and the body clamped.

**STORAGE TEMPERATURE**

- . Storage temperature :  $T_{stg} = -25$  to  $+40$  with RH maximum 80% without condensation.

**RATINGS AND CHARACTERISTICS**

Unless otherwise specified all electrical values apply at an ambient temperature of  $23 \pm 1$  , an atmospheric pressure of 86 to 106kPa and a relative humidity of  $50 \pm 2\%$ .

For reference testing a conditioning period shall be applied of  $96 \pm 4$  hours by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20%.

# PFC Input Capacitors

## Metallized Polypropylene film capacitors

PCMP 472  
(MPP)

### CHARACTERISTICS

#### Test Voltage

- . Cut off current 10mA (rise time 100V/sec.)
- . Test Voltage ( between lead and lead ) :  $1.6 \times V_{Rdc}$ , 1min.
- . Test Voltage ( between leads and case ) :  $2840 V_{dc}$ , 1min.

#### Capacitance

- . Capacitance : Within specified tolerance range when sine wave AC is applied at 1kHz  $\pm 200$ Hz and max.  $5V_{rms}$

#### Dissipation Factor(DF)

- . Dissipation factor: When sine wave AC is applied at 10kHz and  $1 V_{rms}$ ,
  - DF <  $15 \times 10^{-4}$  when  $C < 1.0\mu F$
  - DF <  $20 \times 10^{-4}$  when  $C \geq 1.0\mu F$

#### Insulation Resistance

- . The insulation resistance is measured for 1min.  $\pm 5s$ ,
  - at 100V for  $V_{Rdc} < 500V$ , at 500V for  $V_{Rdc} \geq 500V$
  - Minimum RC product > 30,000s when  $C > 0.33\mu F$
  - ( R = insulation resistance between the terminations[  $\Omega$  ], C= capacitance[Farad] )

#### Self heating temperature

- . Maximum allowable rise is 7

#### Rated Voltage Pulse Load Slope(dV/dt)<sub>R</sub>

- . For values see specific reference data. IF the pulse voltage is lower than the rated voltage, values of the specific reference data must be multiplied by  $V_{Rdc}$  and divided by the applied voltage

Rated voltage	MAXIMUM RATED VOLTAGE PULSE SLOPE (V/ $\mu s$ )		
	P = 15.0 mm	P = 22.5 mm	P = 27.5
450 V / 500V	95	60	-
550 V	120	70	55
630 V	141	85	65

**PRODUCT MARKING**

The capacitors are marked on the side in black ink with the following informations :

- . Rated capacitance in code according to IEC 60062(680nF : 684)
- . Tolerance on rated capacitance(J :  $\pm 5\%$ , K :  $\pm 10\%$ )
- . Rated DC voltage(630V : 630)
- . Manufacturer's mark(Pilkor ; P)
- . Manufacturer's type designation(PCMP 472 : 472)
- . Code for dielectric material( Metallized polypropylene film : MPP )
- . Date code number(5343072)

Example of marking

684 J 630
P472 MPP
5343072