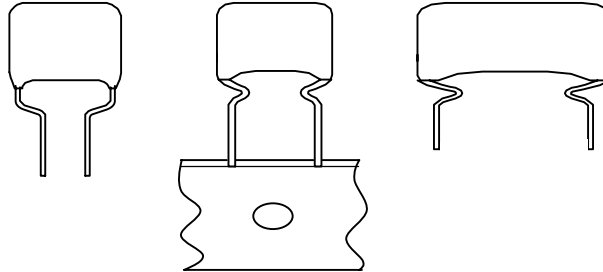


PFC Input Capacitors**PCMP 472****Metallized Polypropylene film capacitors****(MPP)**

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 μ 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

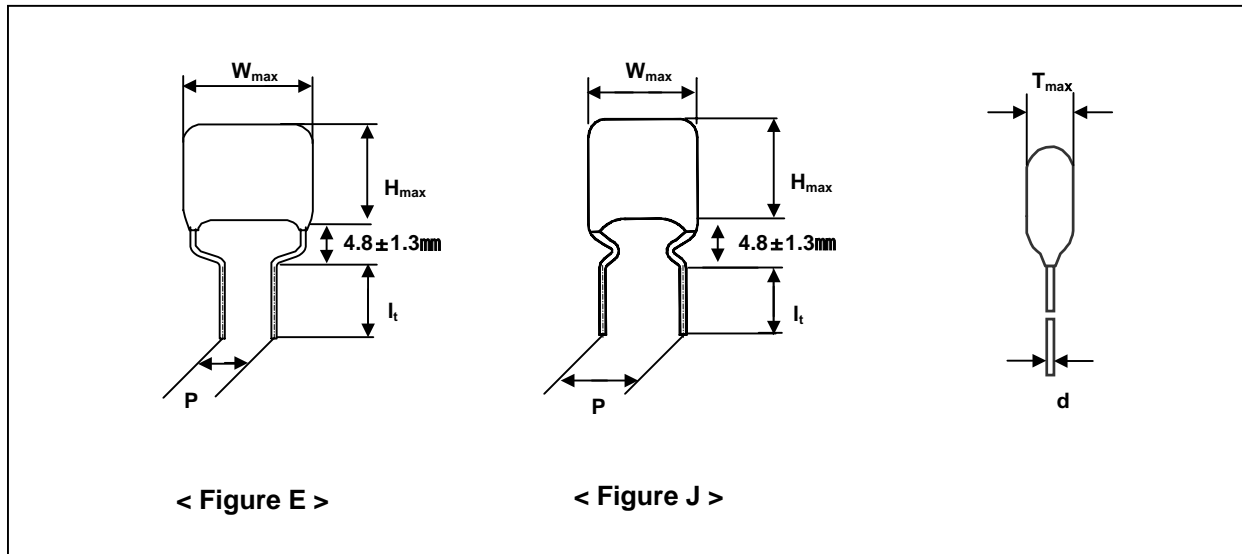
FEATURES <ul style="list-style-type: none"> . Low-noise . Self-healing properties . Low dissipation factor . Low ESR . Cell coated with flame resisting epoxy lacquer . Supplied loose in box 	APPLICATIONS <ul style="list-style-type: none"> . PFC Input Capacitor for LCD/PDP power
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- 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



PCMP 472 X X X X X

Type series

Capacitance

Code	Voltage
L	450V
P	500V
H	550V
6	630V

Code	Pitch
F	15.0mm
J	22.5mm
L	27.5mm

Available versions						Product (W_{max})		
Code	Packing method	C-tol.	Lead Figure	Lead length & Height	Hole to hole (P_0)	18.0	26.0	31.0
						Pitch (P)		
1	Loose in box	$\pm 5\%$	J	$l_t = 4.5 \pm 0.5\text{mm}$	-	15.0	22.5	27.5
2	Loose in box	$\pm 10\%$	J	$l_t = 4.5 \pm 0.5\text{mm}$	-	15.0	22.5	27.5
3	Loose in box	$\pm 5\%$	E	$l_t = 4.5 \pm 0.5\text{mm}$	-	7.5	-	-
4	Loose in box	$\pm 10\%$	E	$l_t = 4.5 \pm 0.5\text{mm}$	-	7.5	-	-

PFC Input Capacitors

Metallized Polypropylene film capacitors

PCMP 472
(MPP)

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

Cap. (μF)	$W_{\text{max}} \times H_{\text{max}} \times T_{\text{max}}$ (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. (μF)	$W_{\text{max}} \times H_{\text{max}} \times T_{\text{max}}$ (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

PCMP 472

Metallized Polypropylene film capacitors

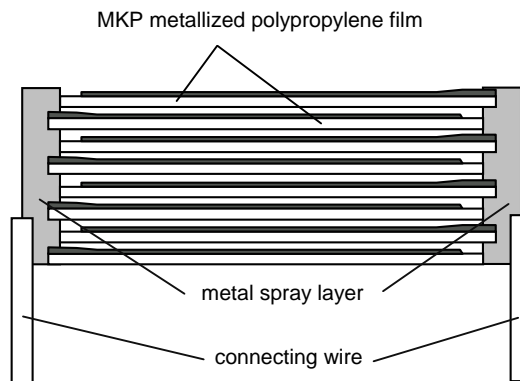
(MPP)

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

Cap. (μF)	$W_{\max} \times H_{\max} \times T_{\max}$ (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. (μF)	$W_{\max} \times H_{\max} \times T_{\max}$ (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 ± 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 ± 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 ± 200 Hz and max. $5V_{rms}$

• Dissipation Factor(DF)

- . Dissipation factor: When sine wave AC is applied at 10kHz and $1 V_{rms}$,

$$DF < 15 \times 10^{-4} \quad \text{when } C < 1.0\mu F$$

$$DF < 20 \times 10^{-4} \quad \text{when } C \geq 1.0\mu F$$

• 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[Ω], C= capacitance[Farad])

• Self heating temperature

- . Maximum allowable rise is 7

• Rated Voltage Pulse Load Slope(dV/dt)_R

- . 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/ μs)		
	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)
- . Batch number code(5343072)

Example of marking

684 J 630
P472 MPP
5343072