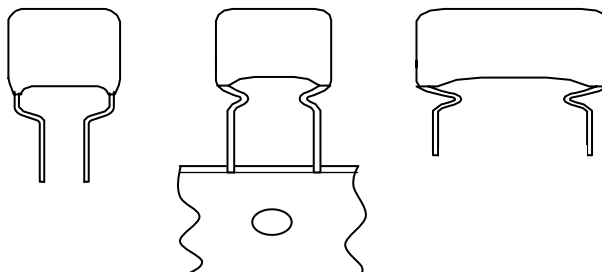


PFC Input Capacitors
Metallized Polypropylene film capacitors

PCMP 472
(MPP)

MKP RADIAL LACQUERED CAPACITORS(Dipped Type)-Brown

Pitch 10.0/15.0/22.5/27.5mm
 (reduced pitch 7.5mm)



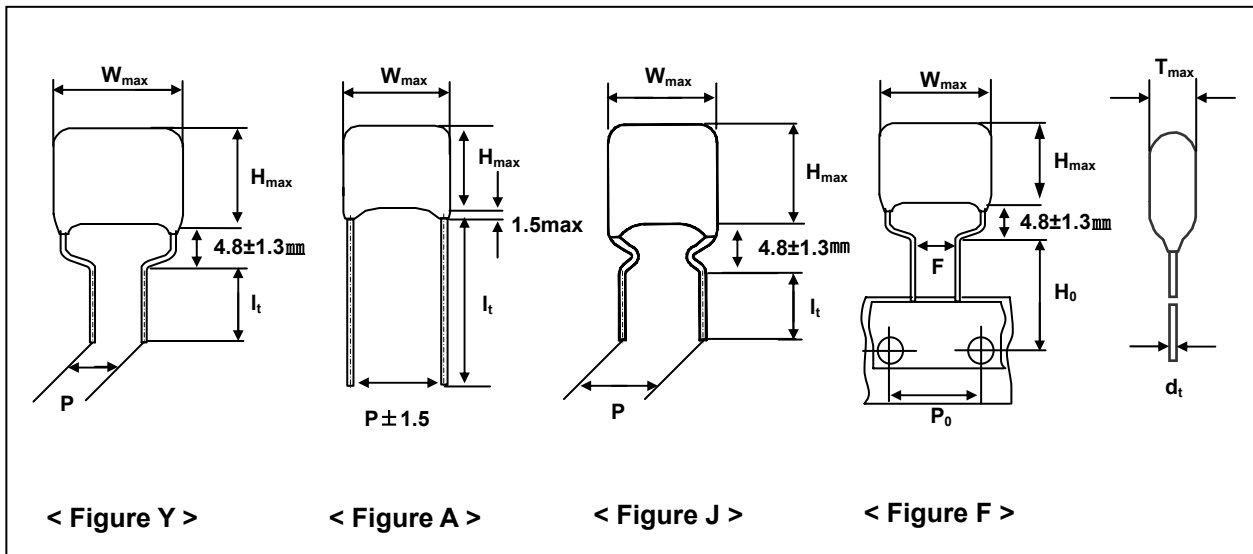
QUICK REFERENCE DATA

Capacitance range (E6 series)	0.1 to 2.2 μ F
Capacitance tolerance	\pm 5%, \pm 10%
Rated voltage (DC)	450V, 500V, 630V
Climatic category	40/105/21
Temperature range	-40 $^{\circ}$ C ~ +105 $^{\circ}$ C
Reference specification	IEC 60384-16
Coating Materials	Qualified in accordance with UL94V-0
Passive flammability category to IEC 60065	Class B

<p>FEATURES</p> <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 	<p>APPLICATIONS</p> <ul style="list-style-type: none"> . PFC Input Capacitor for LCD/PDP power
---	--

• Please refer to caution and warning at <http://www.pilkor.co.kr/download/Introductions.pdf> before using these products.

Ordering Information



PCMP 472 X X X X X X
 Type series Capacitance

Code	Voltage
R	450V mini
U	500V mini
Q	630V mini

Code	Pitch
D	10.0mm
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)	12.5	18.0	26.0	31.0
						Pitch (P)			
U	Loose in box	±5%	A	$l_t = 20.0\text{mm}(\text{min.})$	-	10.0	15.0	22.5	27.5
T	Loose in box	±10%	A	$l_t = 20.0\text{mm}(\text{min.})$	-	10.0	15.0	22.5	27.5
1	Loose in box	±5%	J	$l_t = 4.5 \pm 0.5\text{mm}$	-	10.0	15.0	22.5	27.5
2	Loose in box	±10%	J	$l_t = 4.5 \pm 0.5\text{mm}$	-	10.0	15.0	22.5	27.5
3	Loose in box	±5%	Y	$l_t = 4.5 \pm 0.5\text{mm}$	-	7.5(*)	7.5(*)	-	-
4	Loose in box	±10%	Y	$l_t = 4.5 \pm 0.5\text{mm}$	-	7.5(*)	7.5(*)	-	-
Q	Ammo packing	±5%	F	$H_0 = 16.0\text{mm}$	15.0mm	7.5(*)	7.5(*)	-	-
P	Ammo packing	±10%	F	$H_0 = 16.0\text{mm}$	15.0mm	7.5(*)	7.5(*)	-	-

* Reduced pitch (Reduced lead spacings)

PFC Input Capacitors

PCMP 472

Metallized Polypropylene film capacitors

(MPP)

 $V_{Rdc} = 450V \text{ \& } 500V$

mini type

Cap. (μF)	$W_{max} \times H_{max} \times T_{max}$ (mm)	Mass (g)	CATALOGUE NUMBER	
			PCMP 472.....	
			loose in box	
			450V mini	500V mini
			It= 4.5 \pm 0.5 mm	
			C – tol. \pm 10%	
Pitch = 10.0 \pm 0.8 mm			dt = 0.6 + 0.06 / -0.05 mm	
0.1	12.5 x 11.0 x 5.5	-	PCMP 472DR2104	PCMP 472DU2104
0.15	12.5 x 11.0 x 5.5	-	PCMP 472DR2154	PCMP 472DU2154
0.22	12.5 x 11.5 x 6.0	-	PCMP 472DR2224	PCMP 472DU2224
0.33	12.5 x 13.0 x 7.5	-	PCMP 472DR2334	PCMP 472DU2334
0.47	12.5 x 16.0 x 8.0	-	PCMP 472DR2474	PCMP 472DU2474
0.68	12.5 x 17.5 x 9.5	-	PCMP 472DR2684	PCMP 472DU2684
Pitch = 15.0 \pm 0.8 mm			dt = 0.8 + 0.08 / -0.05 mm	
0.33	18.0 x 11.5 x 6.0	-	PCMP 472FR2334	PCMP 472FU2334
0.47	18.0 x 12.5 x 7.0	-	PCMP 472FR2474	PCMP 472FU2474
0.56	18.0 x 13.0 x 7.5	-	PCMP 472FR2564	PCMP 472FU2564
0.68	18.0 x 13.5 x 8.5	-	PCMP 472FR2684	PCMP 472FU2684
0.82	18.0 x 14.0 x 9.0	-	PCMP 472FR2824	PCMP 472FU2824
1.0	18.0 x 15.0 x 10.0	-	PCMP 472FR2105	PCMP 472FU2105
1.2	18.0 x 16.0 x 10.5	-	PCMP 472FR2125	PCMP 472FU2125
1.5	18.0 x 17.0 x 12.0	-	PCMP 472FR2155	PCMP 472FU2155
2.2	18.0 x 21.0 x 13.0	-	PCMP 472FR2225	PCMP 472FU2225
Pitch = 22.5 \pm 0.8 mm			dt = 0.8 + 0.08 / -0.05 mm	
0.47	26.0 x 11.0 x 6.0	-	PCMP 472JR2474	PCMP 472JU2474
0.56	26.0 x 11.5 x 6.5	-	PCMP 472JR2564	PCMP 472JU2564
0.68	26.0 x 12.0 x 7.0	-	PCMP 472JR2684	PCMP 472JU2684
0.82	26.0 x 12.5 x 7.5	-	PCMP 472JR2824	PCMP 472JU2824
1.0	26.0 x 13.5 x 8.0	-	PCMP 472JR2105	PCMP 472JU2105
1.2	26.0 x 16.0 x 8.0	-	PCMP 472JR2125	PCMP 472JU2125
1.5	26.0 x 17.0 x 8.5	-	PCMP 472JR2155	PCMP 472JU2155
1.8	26.0 x 18.0 x 9.5	-	PCMP 472JR2185	PCMP 472JU2185
2.2	26.0 x 19.0 x 10.5	-	PCMP 472JR2225	PCMP 472JU2225

PFC Input Capacitors

PCMP 472

Metallized Polypropylene film capacitors

(MPP)

 $V_{Rdc} = 630V$

mini type

Cap. (μF)	$W_{max} \times H_{max} \times T_{max}$ (mm)	Mass (g)	CATALOGUE NUMBER
			PCMP 472.....
			loose in box
			lt= 4.5 \pm 0.5 mm
			C – tol. \pm 10%
Pitch = 10.0 \pm 0.8 mm		dt = 0.6 + 0.06 / -0.05 mm	
0.1	12.5 x 11.0 x 5.5	-	PCMP 472DQ2104
0.15	12.5 x 12.0 x 6.5	-	PCMP 472DQ2154
0.22	12.5 x 13.0 x 8.0	-	PCMP 472DQ2224
0.33	12.5 x 16.5 x 8.5	-	PCMP 472DQ2334
0.47	12.5 x 18.0 x 10.0	-	PCMP 472DQ2474
Pitch = 15.0 \pm 0.8 mm		dt = 0.8 + 0.08 / -0.05 mm	
0.1	18.0 x 11.0 x 5.5	-	PCMP 472FQ2104
0.15	18.0 x 11.0 x 5.5	-	PCMP 472FQ2154
0.22	18.0 x 11.5 x 6.0	-	PCMP 472FQ2224
0.33	18.0 x 12.5 x 7.5	-	PCMP 472FQ2334
0.47	18.0 x 13.5 x 8.5	-	PCMP 472FQ2474
0.68	18.0 x 15.0 x 10.0	-	PCMP 472FQ2684
0.82	18.0 x 18.0 x 10.0	-	PCMP 472FQ2824
1.0	18.0 x 19.0 x 11.0	-	PCMP 472FQ2105
Pitch = 22.5 \pm 0.8 mm		dt = 0.8 + 0.08 / -0.05 mm	
0.47	26.0 x 12.5 x 7.5	-	PCMP 472J62474
0.68	26.0 x 15.5 x 7.5	-	PCMP 472J62564
0.82	26.0 x 16.5 x 8.0	-	PCMP 472J62684
1.0	26.0 x 17.0 x 9.0	-	PCMP 472J62824
1.5	26.0 x 19.0 x 11.0	-	PCMP 472J62105
2.2	26.0 x 21.5 x 13.0	-	PCMP 472J62105

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 $+40^{\circ}\text{C}$ with RH maximum 80% without condensation.

RATINGS AND CHARACTERISTICS

Unless otherwise specified all electrical values apply at an ambient temperature of $23 \pm 1^{\circ}\text{C}$, 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%.

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 $\leq 1 V_{rms}$, $DF < 20 \times 10^{-4}$

● **Insulation Resistance**

- . The insulation resistance is measured for 1min. $\pm 5s$, at 100V for $V_{Rdc} < 500V$, at 500V for $V_{Rdc} \geq 500V$

Rated voltage	Minimum RC	Minimum Insulation Resistance
	Capacitance > 0.33uF	Capacitance \leq 0.33uF
450V mini/ 500V mini/ 630V mini	> 10,000s	> 30G Ω

(R = insulation resistance between the terminations[Ω], C= capacitance[Farad])

● **Self heating temperature**

- . Maximum allowable rise is 7 $^{\circ}C$

● **Rated Voltage Pulse Load Slope(dV/dt)_R**

- . For values see specific reference data. IF the pulse voltage is lower than the rated voltage, the 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/ μ s)			
	P = 10.0 mm	P = 15.0 mm	P = 22.5 mm	P = 27.5 mm
450V mini/ 500V mini	150	95	60	-
630V mini	270	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(1343072)

Example of marking

684 J 630
P472 MPP
1343072