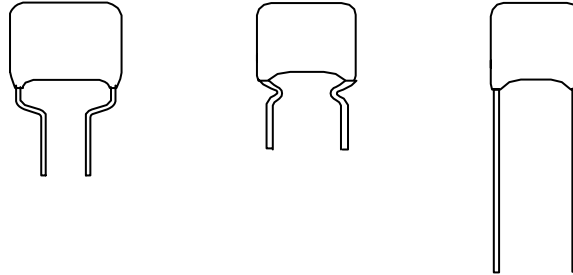


PFC Input Capacitors
Metallized Polypropylene film capacitors

PCMP 473
(Round Shape)

MKP RADIAL LACQUERED CAPACITORS(Dipped Type)-Brown

Pitch 15.0 / 22.5 mm
 (reduced pitch ; 7.5mm)



QUICK REFERENCE DATA

Capacitance range	0.68 to 3.3 μ F
Capacitance tolerance	\pm 5%, \pm 10%
Rated voltage (DC)	300V, 450V, 500V
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

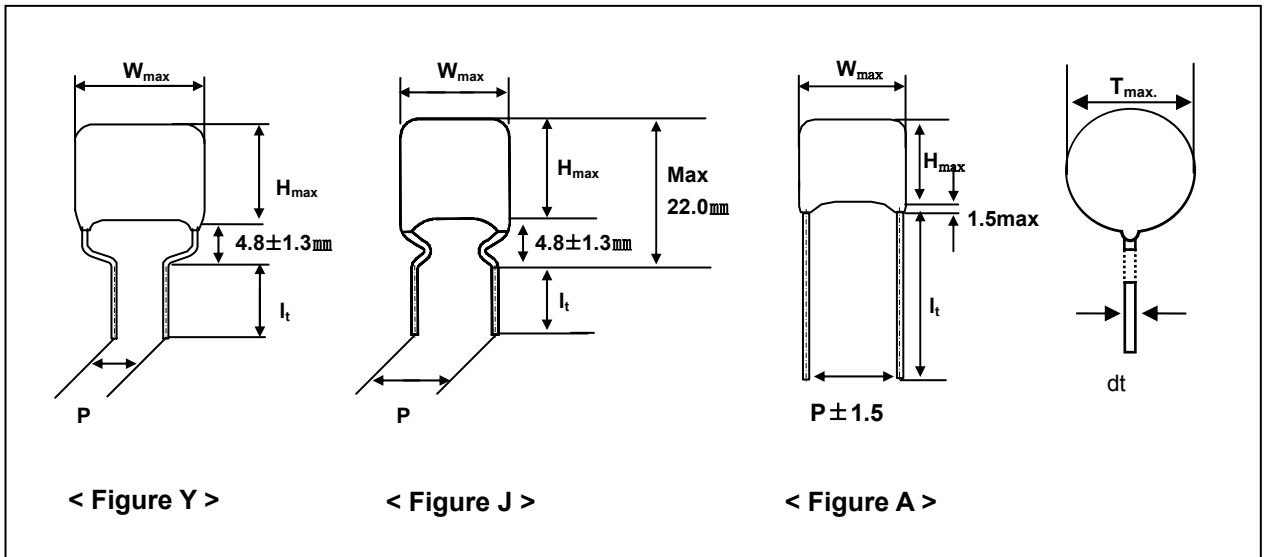
<p>FEATURES</p> <ul style="list-style-type: none"> . Super low-audible noise . Self-healing properties . Low dissipation factor / ESR . Flame retardant epoxy resin coating 	<p>APPLICATIONS</p> <ul style="list-style-type: none"> . ERC / Vs input capacitor for PDP module & power . PFC Input Capacitor for LCD/PDP power (for active filter circuit)
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- Please refer to caution and warning at <http://www.pilkor.co.kr/download/Introductions.pdf> before using these products.

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Ordering Information



PCMP 473 X X X X X X

Type series

Capacitance

Code	Voltage
T	300V
L	450V
P	500V

Code	Pitch
F	15.0mm
J	22.5mm

Available versions						Product (W_{max})		
Code	Packing method	C-tol.	Lead Figure	Lead length & Height	Hole to hole (P_o)	18.0	26.0	31.0
						Pitch (P)		
5	Loose in box	±5%	A	$l_t = \text{Min. } 20.0\text{mm}$	-	15.0	22.5	27.5
6	Loose in box	±10%	A	$l_t = \text{Min. } 20.0\text{mm}$	-	15.0	22.5	27.5
1	Loose in box	±5%	J	$l_t = 4.5 \pm 0.5\text{mm}$	-	15.0	22.5	27.5
2	Loose in box	±10%	J	$l_t = 4.5 \pm 0.5\text{mm}$	-	15.0	22.5	27.5
3	Loose in box	±5%	Y	$l_t = 4.5 \pm 0.5\text{mm}$	-	7.5	-	-
4	Loose in box	±10%	Y	$l_t = 4.5 \pm 0.5\text{mm}$	-	7.5	-	-

PFC Input Capacitors

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(Round Shape)

 $V_{Rdc} = 300 \text{ V}$

Cap. (μF)	$W_{\max} \times H_{\max} \times T_{\max}$ (mm)	Mass (g)	CATALOGUE NUMBER	
			PCMP 473.....	
			loose in box	
			It= 4.5 ± 0.5 mm	
			C – tol. ± 5%	
Pitch = 15.0 ± 0.8 mm			dt = 0.8 + 0.08 / -0.05 mm (Cu wire)	
1.0	18.0 x 13.5 x 13.0	-	PCMP 473FT1105	
Pitch = 22.5 ± 0.8 mm			dt = 0.8 + 0.08 / -0.05 mm (Cp wire)	
3.3	26.0 x 17.5 x 17.0	-	PCMP 473JT1335	

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

Cap. (μF)	$W_{\max} \times H_{\max} \times T_{\max}$ (mm)	Mass (g)	CATALOGUE NUMBER	
			PCMP 473.....	
			loose in box	
			450V	500V
			It= 4.5 ± 0.5 mm	
C – tol. ± 5%				
Pitch = 15.0 ± 0.8 mm			dt = 0.8 + 0.08 / -0.05 mm (Cu wire)	
0.68	18.0 x 11.5 x 11.0	-	PCMP 473FL1684	PCMP 473FP1684
0.82	18.0 x 12.5 x 12.0	-	PCMP 473FL1824	PCMP 473FP1824
1.0	18.0 x 13.0 x 12.5	-	PCMP 473FL1105	PCMP 473FP1105

PFC Input Capacitors

PCMP 473

Metallized Polypropylene film capacitors

(Round Shape)

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%.

PFC Input Capacitors

Metallized Polypropylene film capacitors

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(Round Shape)

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. ± 5 s, at 100V for $V_{Rdc} < 500$ V, at 500V for $V_{Rdc} \geq 500$ V

Rated voltage	Minimum RC	Minimum Insulation Resistance
	Capacitance > 0.33 μ F	Capacitance \leq 0.33 μ F
< 500V	> 15,000s	> 45G Ω
\geq 500V	> 10,000s	> 30G Ω

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

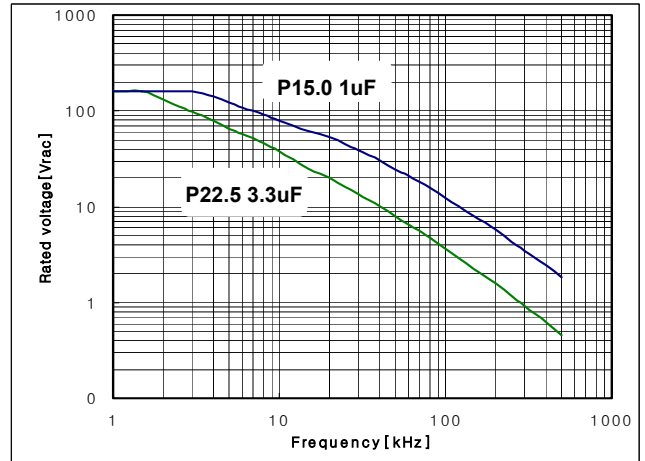
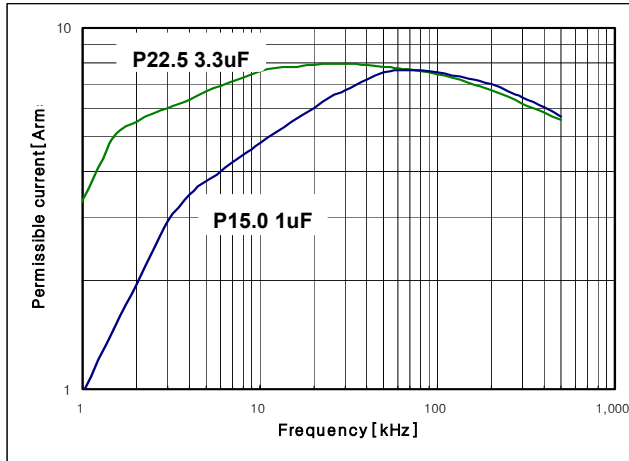
● Rated Voltage Pulse Load Slope(dV/dt)_R

- . 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 = 15.0 mm	P = 22.5 mm	P = 27.5 mm
300V	100	35	-
450V / 500V	95	60	-

● Characteristics of permissible current [Arms] to frequency [kHz]

. $V_{Rdc} = 300V$



* T_s (Capacitor's surface temperature)

; Ambient temp. + Self heating temp. + radiation and conduction heat temp. from other electric supply sources.

● Self heating temperature

. Maximum allowable rise is $7^{\circ}C$ under T_s $105^{\circ}C$.

PRODUCT MARKING

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

- . Rated capacitance in code according to IEC 60062(1000nF : 105)
- . Tolerance on rated capacitance(J : $\pm 5\%$, K : $\pm 10\%$)
- . Rated DC voltage(300V : 300)
- . Manufacturer's mark(Pilkor ; P)
- . Manufacturer's type designation(PCMP 473 : 473)
- . Code for dielectric material(Metallized polypropylene film : MPP)
- . Date code number(1303072)

Example of marking

105 J 300
P473 MPP
1303072