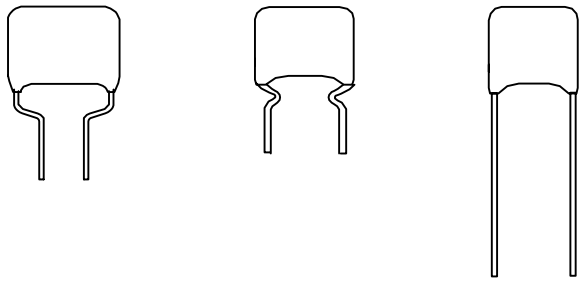
PFC Input Capacitors — PCMP 473

Metallized Polypropylene film capacitors — (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 3.3μF
Capacitance tolerance	±5%, ±10%
Rated voltage (DC)	300V, 450V, 500V
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	APPLICATIONS
. Super low-audible noise	. ERC / Vs input capacitor for PDP module & power
. Self-healing properties	. PFC Input Capacitor for LCD/PDP power
. Low dissipation factor / ESR	(for active filter circuit)
. Flame retardant epoxy resin coating	

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

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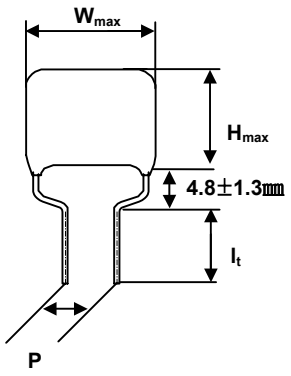
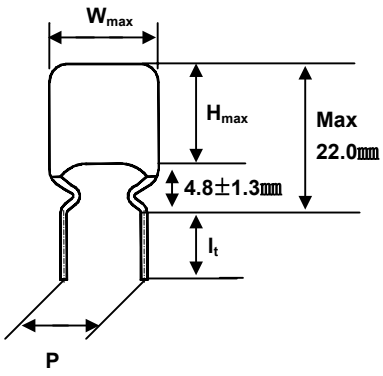
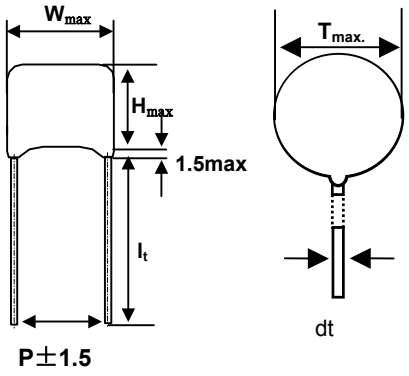
Ordering Information



< Figure Y >



< Figure J >



< Figure A >

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)		
1	Loose in box	±5%	J	It= 4.5±0.5mm	-	15.0	22.5	27.5
2	Loose in box	±10%	J	It= 4.5±0.5mm	-	15.0	22.5	27.5
3	Loose in box	±5%	Y	It= 4.5±0.5mm	-	7.5	-	-
4	Loose in box	±10%	Y	It= 4.5±0.5mm	-	7.5	-	-
5	Loose in box	±5%	A	It= Min. 20.0mm	-	15.0	22.5	27.5
6	Loose in box	±10%	A	It= Min. 20.0mm	-	15.0	22.5	27.5

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V_{Rdc} = 300 V

Cap. (µF)	W_{max} x H_{max} x T_{max} (mm)	Mass (g)	CATALOGUE NUMBER PCMP 473…… loose in box lt= 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 V & 500 V

Cap. (µF)	W_{max} x H_{max} x T_{max} (mm)	Mass (g)	CATALOGUE NUMBER PCMP 473…… loose in box	
			450V	500V
			lt= 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

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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 VIBRATIONAND 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 ±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%.

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CHARACTERISTICS

● Test Voltage

. Cut off current 10mA (rise time 100V/sec.)

. Test Voltage (between lead and lead) : 1.6 x 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 ±200Hz and max. 5V_{rms}

● Dissipation Factor(DF)

. Dissipation factor: When sine wave AC is applied at 10kHz and ≤ 1 V_{rms}, DF < 20 × 10^{-4}

● Insulation Resistance

. The insulation resistance is measured for 1min.±5s, at 100V for V_{Rdc} < 500V, at 500V for V_{Rdc} ≥ 500V

Rated voltage	Minimum RC	Minimum Insulation Resistance
	Capacitance > 0.33uF	Capacitance ≤ 0.33uF
< 500V	> 15,000s	> 45GΩ
≥ 500V	> 10,000s	> 30GΩ

(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, 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 mm
300V	100	35	-
450V / 500V	95	60	-

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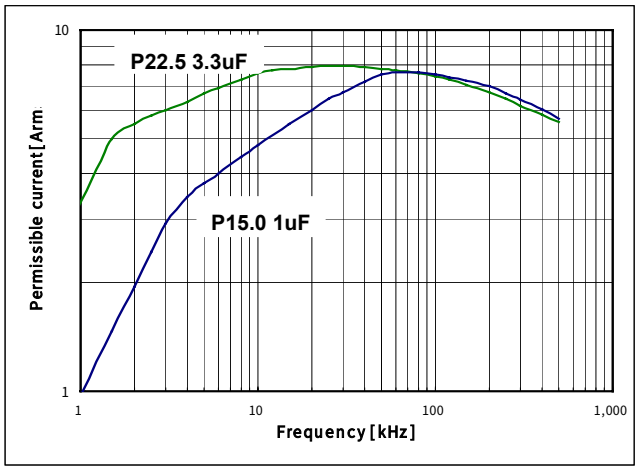
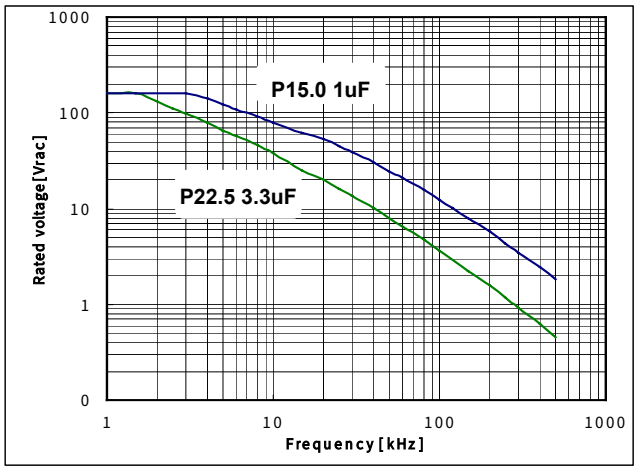
● Characteristics of permissible current [Arms] to frequency [kHz]

. V_{Rdc} = 300V





* Ts (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℃ under Ts 105℃.

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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 : ±5%, K : ±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