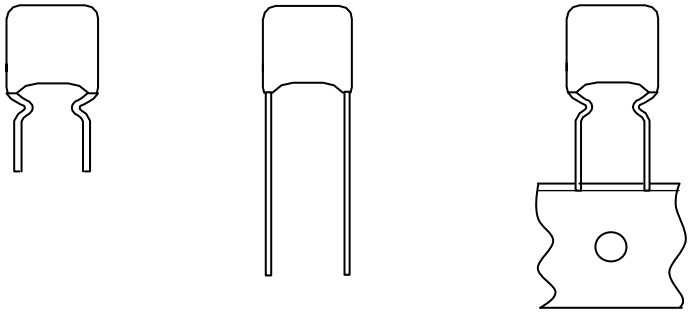
PFC Input Capacitors PCMP 392

Metallized Polypropylene film capacitors (MPP)

MKP LACQUERED CAPACITORS(Dipped Type)-Brown **Pitch 10.0/15.0mm (reduced pitch;7.5mm)**



QUICK REFERENCE DATA

Capacitance range (E12 series)	0.22 to 2.2㎌
Capacitance tolerance	±5%, ±10%
Rated voltage (DC)	450V
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
. Low-noise	. PFC Input Capacitor for LCD/PDP power
. Self-healing properties	. PFC Input Capacitor for LED lamp power
. Low dissipation factor	
. Low ESR	
. Cell coated with flame resisting epoxy lacquer	
. Supplied loose in box	
. Miniature type of PCMP 472 series	

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

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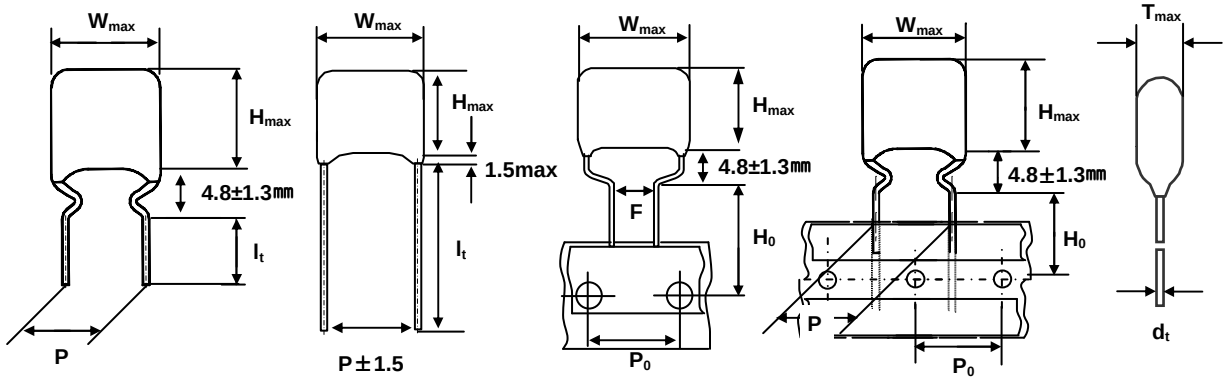
Ordering Information



< Figure J > < Figure A > < Figure F > < Figure K >

P	3	9	2	H	A	F	6	8	4	J	A	J	T
1				2		3	4			5	6	7	

1	
Code	Series Name
P392	PCMP 392

2	
Code	Voltage+Version
HA	450V

3	
Code	Original Pitch
D	10.0mm
F	15.0mm

4	
Code	Capacitance (example)
474	0.47uF
105	1.0uF

5	
Code	Capacitance Tolerance
J	± 5 %
K	± 10 %

6	
Code	Revision
A	Standard

7					Product(Wmax)	
					12.5	18.0
Code	Packing Method	Lead Figure	Lead length & Height	Hole to hole (Po)	Pitch(P or F)	
AM	Loose in box - Vinyl	A	lt= 20.0mm(min.)	-	10.0	15.0
JT	Loose in box - Vinyl	J	lt=4.5±0.5mm	-	10.0	15.0
KA	Ammo packing	K	H_0=16.0mm	12.7mm	10.0	15.0
FG	Ammo packing	F	H_0=16.0mm	15.0mm	7.5(*)	7.5(*)

*Reduced pitch(Reduced lead spacings).

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V_{Rdc} = 450V

Cap. (μF)	W_{max} x H_{max} x T_{max} (mm)	Mass (g)	CATALOGUE NUMBER	
			loose in box – Vinyl / Figure J	
			lt= 4.5 ± 0.5 mm	
			C – tol. ± 5%	C – tol. ± 10%
Pitch = 10.0 ± 0.8 mm			dt = 0.6 + 0.06 / -0.05 mm	
0.22	12.5 x 10.5 x 5.5	0.7	P392HAD224JAJT	P392HAD224KAJT
0.27	12.5 x 11.0 x 5.7	0.8	P392HAD274JAJT	P392HAD274KAJT
0.33	12.5 x 11.5 x 6.2	0.8	P392HAD334JAJT	P392HAD334KAJT
0.39	12.5 x 12.0 x 6.6	0.9	P392HAD394JAJT	P392HAD394KAJT
0.47	12.5 x 14.6 x 6.1	1.1	P392HAD474JAJT	P392HAD474KAJT
0.56	12.5 x 15.2 x 6.7	1.2	P392HAD564JAJT	P392HAD564KAJT
0.68	12.5 x 15.8 x 7.3	1.4	P392HAD684JAJT	P392HAD684KAJT
0.82	12.5 x 16.5 x 8.0	1.6	P392HAD824JAJT	P392HAD824KAJT
1.0	12.5 x 17.3 x 8.8	1.8	P392HAD105JAJT	P392HAD105KAJT
Pitch = 15.0 ± 0.8 mm			dt = 0.8 + 0.08 / -0.05 mm	
0.47	18.0 x 11.0 x 6.0	0.9	P392HAF474JAJT	P392HAF474KAJT
0.56	18.0 x 11.5 x 6.0	1.0	P392HAF564JAJT	P392HAF564KAJT
0.68	18.0 x 12.0 x 6.5	1.1	P392HAF684JAJT	P392HAF684KAJT
0.82	18.0 x 12.5 x 7.0	1.3	P392HAF824JAJT	P392HAF824KAJT
1.0	18.0 x 13.0 x 7.7	1.5	P392HAF105JAJT	P392HAF105KAJT
1.2	18.0 x 13.7 x 8.5	1.8	P392HAF125JAJT	P392HAF125KAJT
1.5	18.0 x 14.5 x 9.3	2.1	P392HAF155JAJT	P392HAF155KAJT
1.8	18.0 x 15.5 x 10.0	2.5	P392HAF185JAJT	P392HAF185KAJT
2.2	18.0 x 16.5 x 11.0	2.9	P392HAF225JAJT	P392HAF225KAJT

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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 116 ±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<20X10^{-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
450V	> 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, 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/μs)	
	P = 10.0 mm	P = 15.0 mm
450V	47.5	47.5

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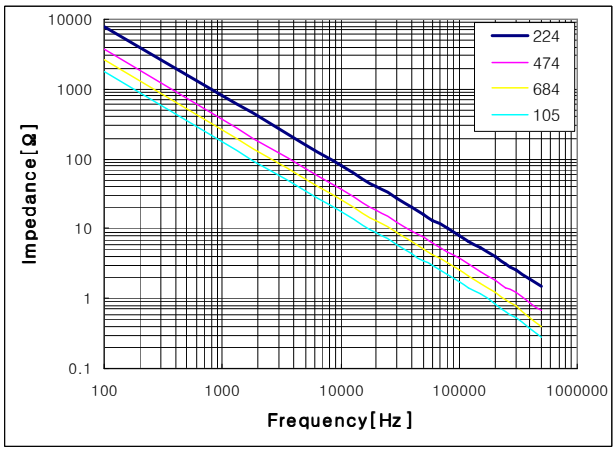
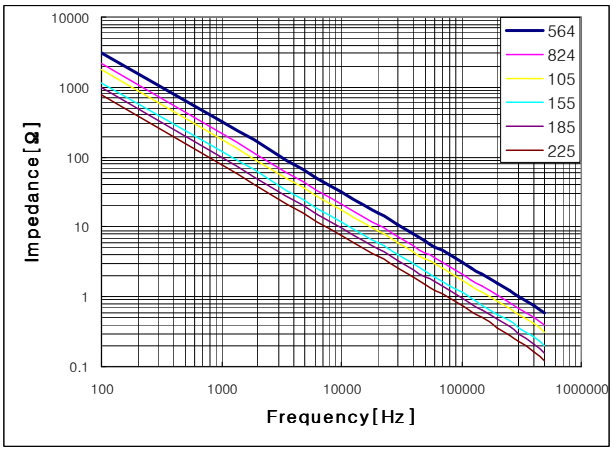
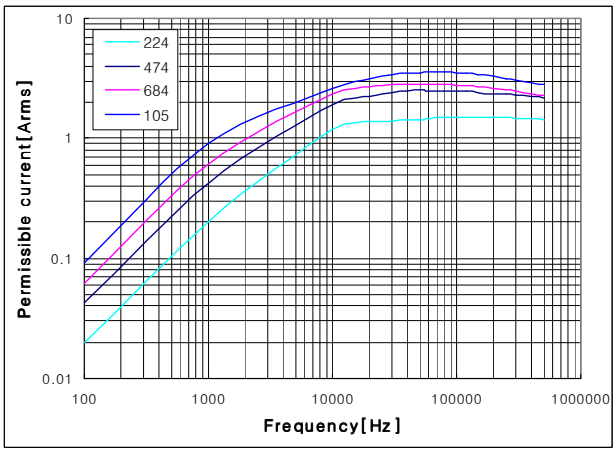
THE GRAPHS OF CHARACTERISTICS



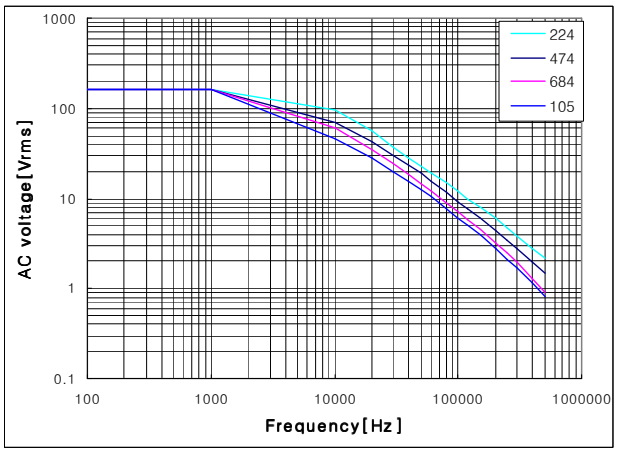
Impedance as a function of frequency
at $T_{amb.} \leq 85℃$ for original pitch 10.0mm



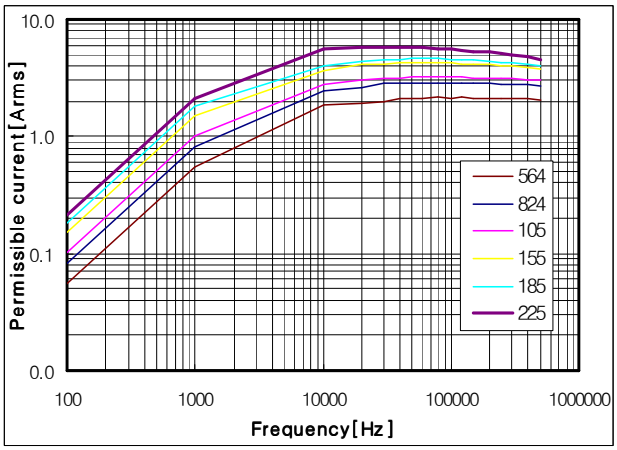
Impedance as a function of frequency
at $T_{amb.} \leq 85℃$ for original pitch 15.0mm



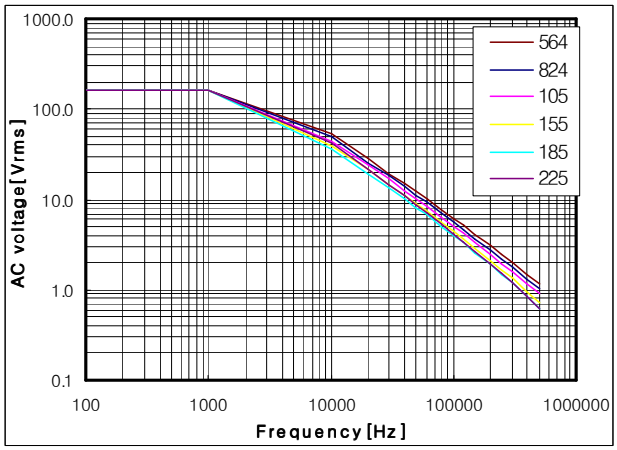
Permissible current as a function of frequency
at $T_{amb.} \leq 85℃$ for original pitch 10.0mm



AC voltage as a function of frequency
at $T_{amb.} \leq 85℃$ for original pitch 10.0mm



Permissible current as a function of frequency
at $T_{amb.} \leq 85℃$ for original pitch 15.0mm



AC voltage as a function of frequency
at $T_{amb.} \leq 85℃$ for original pitch 15.0mm

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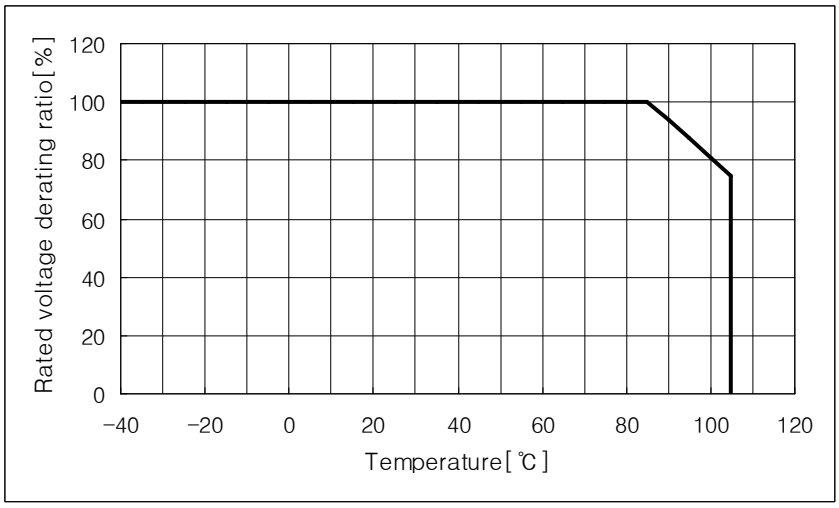
- **Permissible current to temperature**

When operating in the range of $T_{amb.}$ (85℃ ~ 105℃) with waveform, the value for characteristic of permissible current to frequency shown in Fig. shall be derated 2.25% at each 1℃.

- **Self heating temperature**

. Maximum allowable rise is 7℃ under 85℃.

- **Maximum permissible continuous voltage vs temperature [℃]**



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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(680nF : 684)

. Tolerance on rated capacitance(J : ±5%, K : ±10%)

. Rated DC voltage(450V : 450)

. Manufacturer's mark(Pilkor ; P)

. Manufacturer's type designation(P392)

. Code for dielectric material(Metallized polypropylene film : MPP)

. Batch number code(3151100)

Example of marking

684 J 450
P392 MPP
3151100