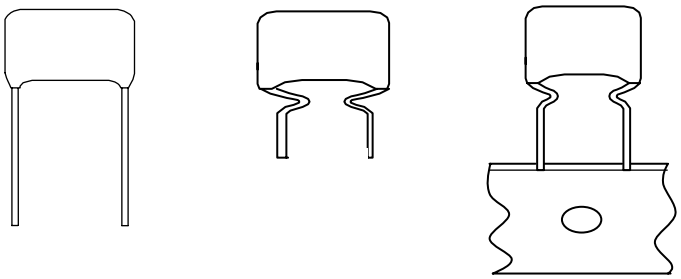
PFC Input Capacitors PCMT 362

Metallized Polyester film capacitors

MKT RADIAL LACQUERED CAPACITORS(Dipped Type)-Brown **Pitch 10.0/15.0 mm**



QUICK REFERENCE DATA

Capacitance range (E12 series)	0.18 to 1.0㎌
Capacitance tolerance	±10%
Rated voltage (DC)	450V (160Vac / 200Vac)
Climatic category (IEC 60068-1)	40/110/21
	(Derate the operating voltage
	when operating temperature is higher than +85℃)
Reference specification	IEC 60384-2
Coating material	Qualified in accordance with UL94V-0

FEATURES	APPLICATIONS
. Self-healing properties	. PFC Input Capacitor for LCD/PDP power
. Flame retardant epoxy resin (UL 94V-0) coating type	. Suitable for absorbing noise of active filter
. Supplied loose in box & ammo packing	

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

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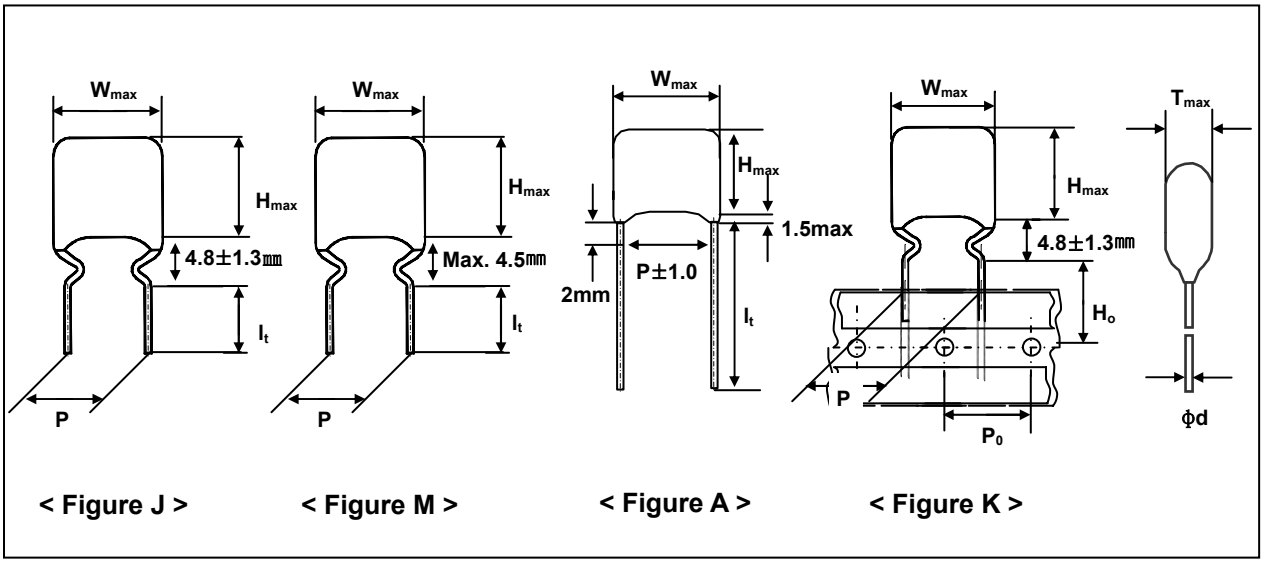
Ordering Information



< Figure J > < Figure M > < Figure A > < Figure K >

PCMT 362 X X X X X X

Type series

Capacitance

Code	Voltage
L	450V

Code	Pitch
D	10.0 mm
F	15.0 mm

Available versions						Product (W_{max})	
Code	Packing method	C-tol.	Lead Figure	Lead length & Height	Hole to hole (P_o)	12.5mm	18.0mm
						Pitch(P)	
1	Loose in box	±10%	M	I_t= 3.5±0.5mm	-	10.0±0.8	15.0±0.8
2	Loose in box	±10%	A	I_t= 20.0mm(min.)	-	10.0±1.0	15.0±1.0
3	Ammo packing	±10%	K	H_0=16.0㎜	12.7±0.5	10.0±0.8	15.0±0.8
4	Loose in box	±10%	J	I_t= 4.5±0.5mm	-	10.0±0.8	15.0±0.8

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V_{Rdc} = 450 V

Cap. (µF)	W_{max} x H_{max} x T_{max} (mm)	Mass (g)	CATALOGUE NUMBER PCMT 362…… loose in box lt= 4.5 ± 0.5 mm C – tol. ± 10%
Pitch = 10.0 ± 0.8 mm			dt = 0.6 + 0.06 / -0.05 mm
0.18	12.5 x 10.5 x 5.5	-	PCMT 362DL4184
0.22	12.5 x 11.5 x 6.0	0.9	PCMT 362DL4224
0.33	12.5 x 12.0 x 7.0	-	PCMT 362DL4334
0.47	12.5 x 14.9 x 6.6	1.5	PCMT 362DL4474
0.68	12.5 x 16.1 x 7.8	1.9	PCMT 362DL4684
1.0	12.5 x 17.8 x 9.4	2.4	PCMT 362DL4105
Pitch = 15.0 ± 0.8 mm			dt = 0.8 + 0.08 / -0.05 mm
0.47	18.0 x 11.9 x 6.7	1.7	PCMT 362FL4474
0.68	18.0 x 15.0 x 6.7	2.2	PCMT 362FL4684
1.0	18.0 x 16.0 x 7.5	2.7	PCMT 362FL4105

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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

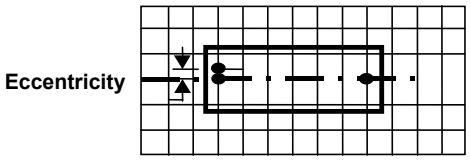
. Storage temperature : T_{stg} = -25 to +40℃ with RH maximum 80% without condensation.

RATINGS AND CHARACTERISTICS

Unless otherwise specified all electrical values apply at an ambient temperature of 23±5℃, an atmospheric pressure of 86 to 106kPa and a relative humidity of 50±20%.
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%.

ECCENTRICITY REQUIREMENTS ON PRINTED-CIRCUIT BOARD

- Eccentricity as in drawing.



. The maximum eccentricity is smaller than 0.8mm from center of the product concerned.

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CHARACTERISTICS

● **Test voltage** (Cut-off current 10mA)

. Test Voltage (between leads) : 1.6 × V_{Rdc} for 1min.

1.75 × V_{Rdc} for 5s.

. Test Voltage (between lead to case) : 2.0 × V_{Rdc} for 5s.

● **Capacitance**

. Capacitance : Within specified tolerance range when sine wave AC is applied

at 1kHz ±200Hz and 5V_{rms}

● **Dissipation factor(DF)**

. Dissipation factor: when sine wave AC is applied at 1kHz, 10kHz and ≤ 1 V_{rms},

Rated voltage	Capacitance	Tangent of loss angle (x 10^{-4})	
	1kHz	1kHz	10kHz
450 V (P=10.0mm)	0.18㎌ ~ 1.0㎌	≤ 75	≤ 160
450V (P=15.0mm)	0.47㎌ ~ 1.0㎌	≤ 80	≤ 170

● **Insulation resistance**

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

Minimum RC product > 7,500s when C > 0.33㎌

Minimum R > 20,000MΩ when C ≤ 0.33㎌

(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/㎲)	
	l_{max} = 12.5 mm	l_{max} = 18.0 mm
450 V	200	150

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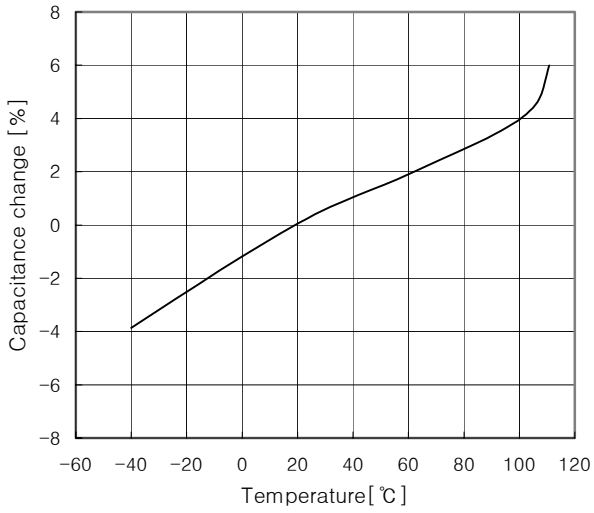
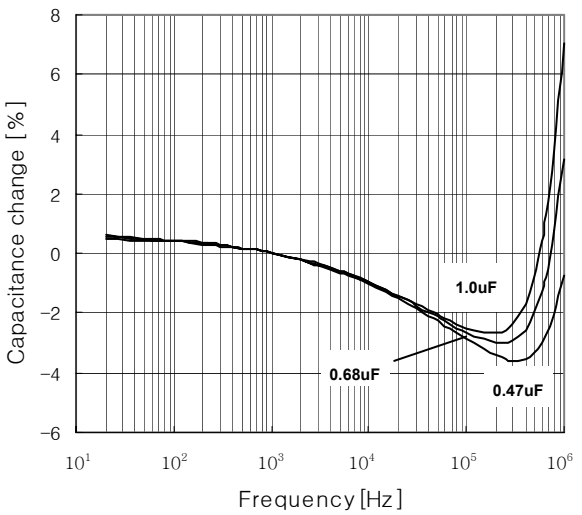
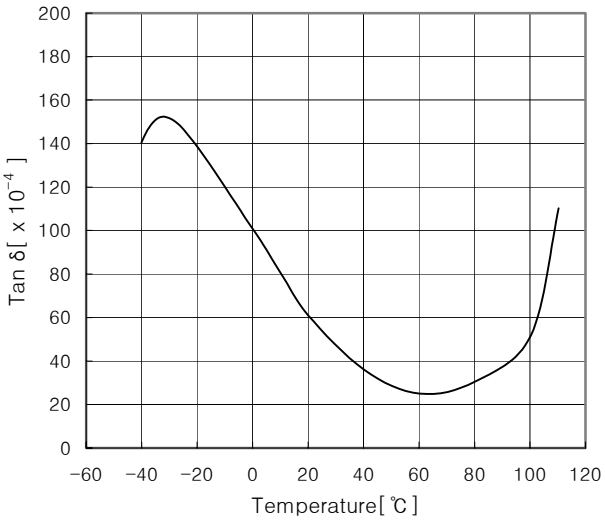
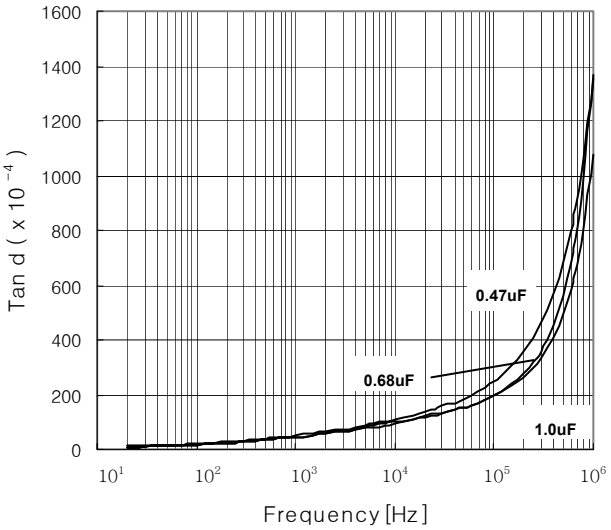
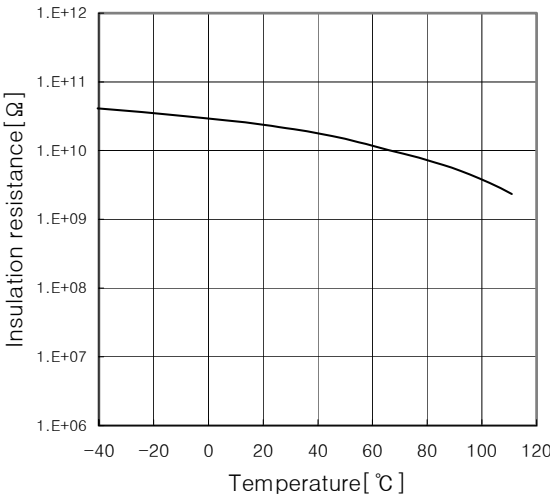
THE GRAPHS OF CHARACTERISTICS

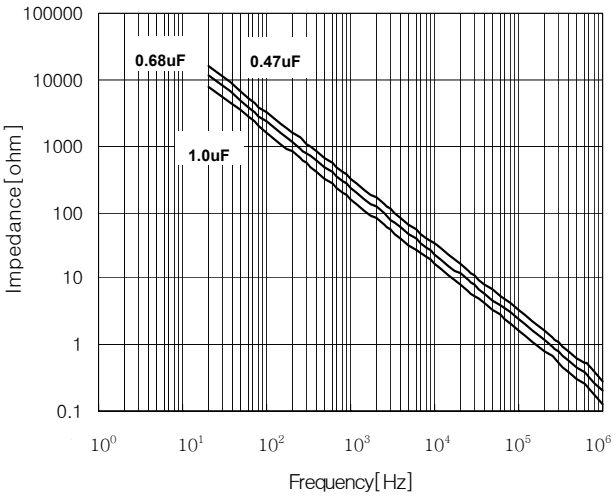












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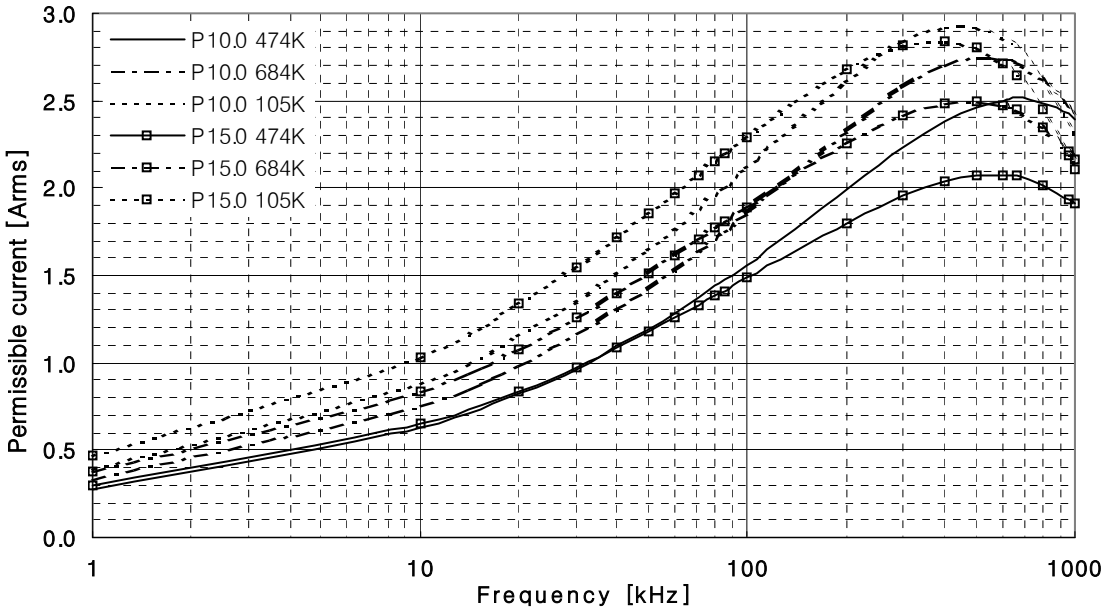
Characteristics of permissible current [Arms] to frequency [kHz] (at Tamb. ≤ 85℃)



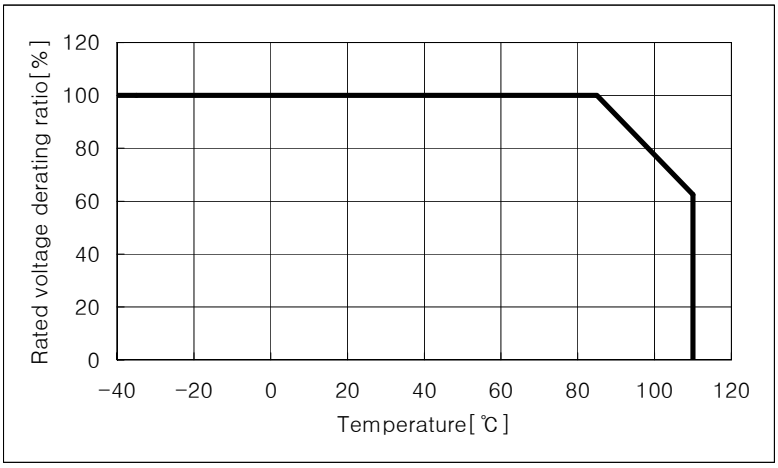
● **Permissible current to temperature**

When operating in the range of Tamb. (85℃ ~ 110℃) with waveform, the value for characteristic of permissible current to frequency shown in Fig. shall be derated 1.5% at each 1℃.

● **Self heating temperature**

. Maximum allowable rise is 7℃ under 85℃.

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



The rated voltage should be derated 1.5% at each 1℃ in the range of +85℃ ~ +110℃ for liability as shown in the Fig. above.

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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(474)

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

. Rated DC voltage(450)

. Manufacturer's type designation(P362)

. Code for dielectric material(MKT)

. Batch number code (1343072)

Example of marking

474 K 450
P362 MKT
1343072