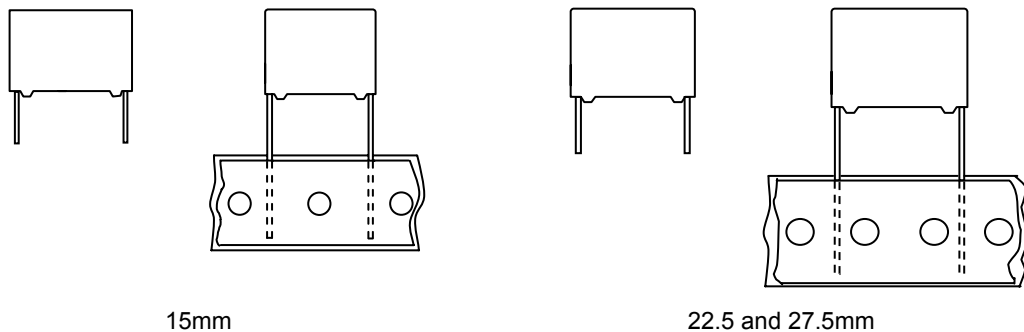


**MKP RADIAL POTTED CAPACITORS**

**Pitch 10.0/15.0/22.5/27.5mm**



**QUICK REFERENCE DATA**

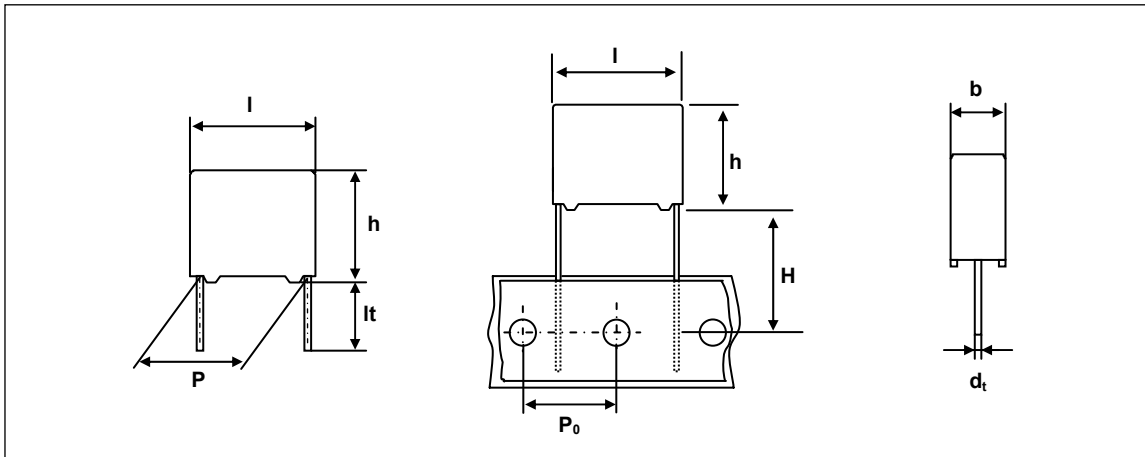
Capacitance range(E6 series) *	0.001 $\mu\text{F}$ to 0.47 $\mu\text{F}$
Capacitance tolerance	$\pm 10\%$ , $\pm 20\%$
Rated (AC) voltage 50 to 60 Hz	300 V $\sim$
Climatic category	55/105/21
Temperature range	-55 $^{\circ}\text{C}$ ~ +105 $^{\circ}\text{C}$
Reference IEC specification	IEC 60384-14(3rd edition) and EN 60384-14
Safety approvals	UL 1414 & CSA-C22.2 No. 1 UL 1283 & CSA-C22.2 No. 8, ENEC
Potting & Encapsulation material	Qualified in accordance with UL 94V-0
Safety class	Y2

\*Intermediate values of the E12 series are available to special order

<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>. 10 to 27.5 mm lead pitch</li> <li>. Supplied loose in box and taped on reel</li> <li>. Consist of a low-inductive wound cell of Metallized Polypropylene film, potted in a flame retardant case</li> </ul>	<p><b>APPLICATIONS</b></p> <ul style="list-style-type: none"> <li>. For Y2-electromagnetic interference suppression</li> <li>. Specially designed to meet the <b>NEW REQUIREMENTS</b> in new IEC 60384-14 specification(3rd edition)/EN 60384-14 requiring for Y2 a 5kV peak pulse voltage test and the UL1414 and CSA-C22.2 No. 1 specification</li> </ul>
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• Please refer to caution and warning at <http://www.pilkor.co.kr/download/Introductions.pdf> before using these products.

**Ordering Information**



**PCY2 130 X X X X X**

Type series

Capacitance

<b>Code</b>	<b>Voltage</b>
3	300Vac
<b>Code</b>	<b>Original pitch</b>
D	10.0mm
F	15.0mm
J	22.5mm
L	27.5mm

Available versions					Product (I <sub>max</sub> )			
code	Packing method	C – tol.	Lead length & Height	Hole to hole (P <sub>0</sub> )	12.5	18.0	26.0	31.0
					Pitch (P)			
0	Loose in box	±20%	lt = 5.0 ± 1.0mm	-	10.0	15.0	22.5	27.5
1	Loose in box	±10%	lt = 5.0 ± 1.0mm	-	10.0	15.0	22.5	27.5
4	Loose in box	±20%	lt = 25.0 ± 2.0mm	-	10.0	15.0	22.5	27.5
5	Loose in box	±10%	lt = 25.0 ± 2.0mm	-	10.0	15.0	22.5	27.5
6	Ammopack	±20%	H = 18.5mm	12.7mm	10.0	15.0	22.5	27.5
7	Ammopack	±10%	H = 18.5mm	12.7mm	10.0	15.0	22.5	27.5

\*\* Some values is not following the coding rule.

## EMI Suppression film capacitors

PCY2 130

### SAFETY APPROVALS

SAFETY APPROVALS	Voltage	Value	File Number
UL1414 & CSA-C 22.2 No. 1 (cUL)	250V(AC)	1nF to 470nF	E165646
UL1283 & CSA-C 22.2 No. 8 (cUL)	300V(AC)	1nF to 470nF	E208404
ENEC*(SEMKO)	300V(AC)	1nF to 470nF	SE/0256-5

\* The ENEC-approval together with the CB-Certificate replace all national approval marks of the following countries(they have already signed the ENEC-Agreement): Austria; Belgium; Czech. Republic; Denmark; Finland; France; Germany; Greece; Hungary; Ireland; Italy; Luxembourg; Netherlands; Norway; Portugal; Slovenian; Spain; Sweden; Switzerland and United Kingdom

### Packaging Information

SMALLEST PACKING QUANTITIES (SPQ)	LOOSE IN BOX	
	It = 5.0 ± 1.0 mm	It = 25.0 ± 2.0 mm
<b>DIMENSIONS</b>		
4.0 x 10.0 x 12.5	2000	1200
5.0 x 11.0 x 12.5	1500	1000
6.0 x 12.0 x 12.5	1000	1000
5.0 x 11.0 x 18.0	1000	1000
6.0 x 12.0 x 18.0	1000	1000
7.0 x 13.5 x 18.0	1000	1000
8.5 x 15.0 x 18.0	1000	1000
10.0 x 16.5 x 18.0	1000	1000
7.0 x 16.5 x 26.0	1000	1000
8.5 x 18.0 x 26.0	1000	1000
10.0 x 19.5 x 26.0	500	500
12.0 x 22.0 x 26.0	500	500
13.0 x 23.0 x 31.0	250	250
15.0 x 25.0 x 31.0	250	250
18.0 x 28.0 x 31.0	200	200
21.0 x 31.0 x 31.0	150	150

# EMI Suppression film capacitors

PCY2 130

## SPECIFIC REFERENCE DATA FOR 300 V<sub>AC</sub>

Tangent of loss angle	at 1 khz	at 10 khz	at 100kHz
	$\leq 10 \times 10^{-4}$	$\leq 20 \times 10^{-4}$	$\leq 100 \times 10^{-4}$
Rated voltage pulse slope (dV/dt) <sub>R</sub> P = 10.0mm P = 15.0mm P = 22.5mm P = 27.5mm		800 V/ $\mu$ s 600 V/ $\mu$ s 500 V/ $\mu$ s 400 V/ $\mu$ s	
R between leads, for C $\leq 0.33\mu$ F at 100V 1min		> 15 000 M $\Omega$	
RC between leads, for C > 0.33 $\mu$ F at 100V 1min		> 5 000 s	
R between leads and case ; 100V 1min		> 30 000 M $\Omega$	
Withstanding(DC) Voltage (cut-off current 10mA)		3400V ; 1 min	
Withstanding(AC) Voltage between leads and case		2400V ; 1 min	

V<sub>Rac</sub> = 300 V<sup>~</sup> Y2

Cap. ( $\mu$ F)	b x h x l (mm)	Mass (g)	CATALOGUE NUMBER			
			PCY2 130 .....			
			loose in box			
			lt = 5.0 $\pm$ 1.0 mm		lt = 25.0 $\pm$ 2.0 mm	
			C - tol. $\pm$ 20 %	C - tol. $\pm$ 10 %	C - tol. $\pm$ 20 %	C - tol. $\pm$ 10 %
Pitch = 10.0 $\pm$ 0.4 mm			dt = 0.6 +0.06/-0.05 mm			
0.001	4.0 x 10.0 x 12.5	0.8	D30102	D31102	D34102	D35102
0.0015			D30152	D31152	D34152	D35152
0.0022			D30222	D31222	D34222	D35222
0.0033			D30332	D31332	D34332	D35332
0.0047	5.0 x 11.0 x 12.5	0.9	D30472	D31472	D34472	D35472
0.0068			D30682	-	D34682	-
0.0068	6.0 x 12.0 x 12.5	1.0	-	D31682	-	D35682
0.01	6.0 x 12.0 x 12.5	1.0	D30103	D31103	D34103	D35103
Pitch = 15.0 $\pm$ 0.4 mm			dt = 0.8 +0.08/-0.05 mm			
0.0068	5.0 x 11.0 x 18.0	1.2	F30682	F31682	F34682	F35682
0.01			F30103	F31103	F34103	F35103
0.015	6.0 x 12.0 x 18.0	1.4	F30153	F31153	F34153	F35153
0.022	7.0 x 13.5 x 18.0	1.9	F30223	F31223	F34223	F35223
0.033	8.5 x 15.0 x 18.0	2.6	F30333	F31333	F34333	F35333
0.047	10.0 x 16.5 x 18.0	3.1	F30473	F31473	F34473	F35473

# EMI Suppression film capacitors

PCY2 130

 $V_{\text{Rac}} = 300 \sim \text{Y2}$ 

Cap. ( $\mu\text{F}$ )	b x h x l (mm)	Mass (g)	CATALOGUE NUMBER			
			PCY2 130 .....			
			loose in box			
			lt = 5.0 $\pm$ 1.0 mm		lt = 25.0 $\pm$ 2.0 mm	
			C - tol. $\pm$ 20 %	C - tol. $\pm$ 10 %	C - tol. $\pm$ 20 %	C - tol. $\pm$ 10 %
Pitch = 22.5 $\pm$ 0.4 mm			dt = 0.8 +0.08/-0.05 mm			
0.047	7.0 x 16.5 x 26.0	3.2	J30473	J31473	J34473	J35473
0.068	8.5 x 18.0 x 26.0	4.4	J30683	J31683	J34683	J35683
0.1	10.0 x 19.5 x 26.0	5.5	J30104	J31104	J34104	J35104
0.15	12.0 x 22.0 x 26.0	8.0	J30154	J31154	J34154	J35154
Pitch = 27.5 $\pm$ 0.4 mm			dt = 0.8 +0.08/-0.05 mm			
0.22	13.0 x 23.0 x 31.0	10.4	L30224	-	L34224	-
0.22	15.0 x 25.0 x 31.0	12.8	-	L31224	-	L35224
0.33	18.0 x 28.0 x 31.0	17.2	L30334	L31334	L34334	L35334
0.47	21.0 x 31.0 x 31.0	20.4	L30474	L31474	L34474	L35474

Original pitch	New Code	Old Code	Example
10.0mm	PCY2 130D3xxxx	PCY2 130 3xxxx	PCY2 130 60474 => PCY2 130L30474
15.0mm	PCY2 130F3xxxx	PCY2 130 4xxxx	
22.5mm	PCY2 130J3xxxx	PCY2 130 5xxxx	
27.5mm	PCY2 130L3xxxx	PCY2 130 6xxxx	

## 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.

For detailed specifications refer to chapter "PACKAGING".

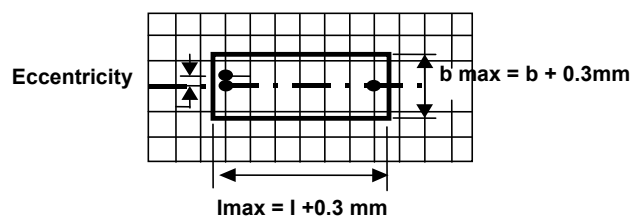
### SPECIFIC METHOD OF MOUNTING TO WITHSTAND VIBRATION AND SHOCK

In order to withstand vibration and shock tests, it must be ensured that the stand-off pins are in good contact with the printed-circuit board.

- . For pitches of 15mm the capacitors shall be mechanically fixed by leads.
- . For larger pitches the capacitors shall be mounted in the same way and the body clamped.

## SPACE REQUIREMENTS ON PRINTED-CIRCUIT BOARD

The maximum length and width of film capacitors are shown in the following drawing ;



- Eccentricity as in drawing.

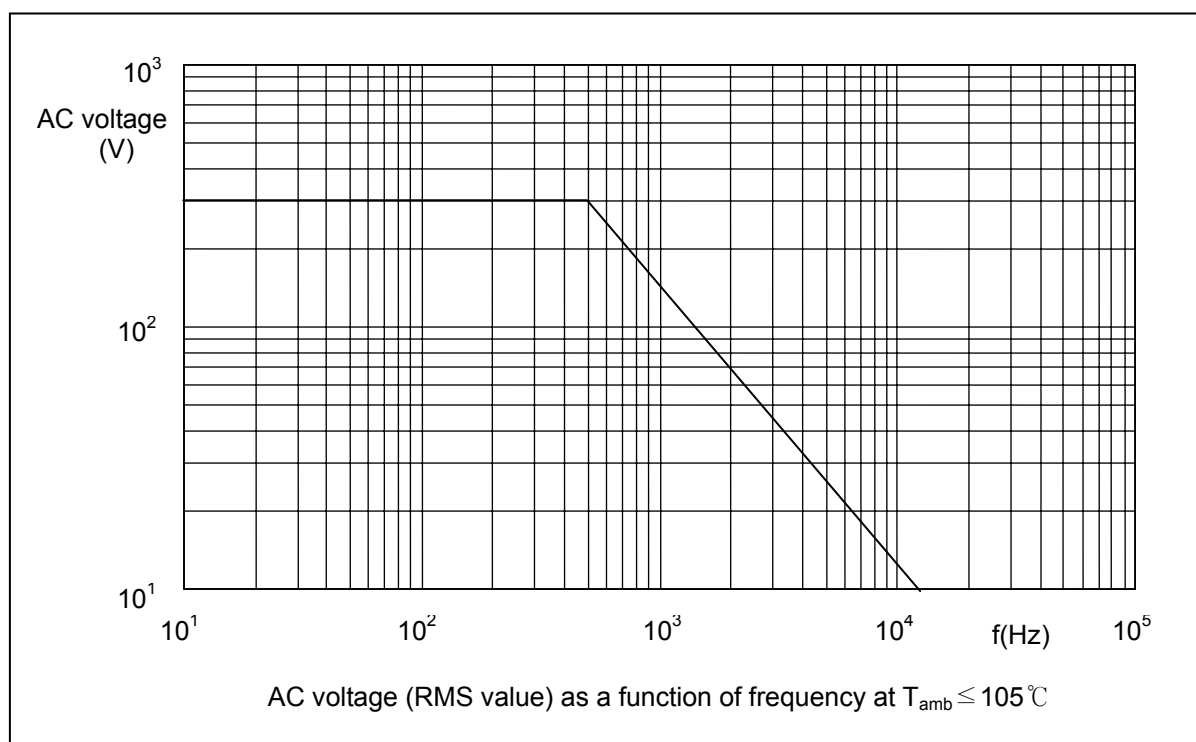
The maximum eccentricity is smaller than or equal to the lead diameter of the product concerned.

- Product height with seating plane as given by IEC 60717 as reference :  $h_{\max} \leq h + 0.3\text{mm}$

**RATINGS AND CHARACTERISTICS**

Unless otherwise specified all electrical values apply to an ambient temperature of  $23 \pm 1^\circ\text{C}$ , an atmospheric pressure of 86 to 106kPa and a relative humidity  $50 \pm 2\%$ .

For reference testing, a conditioning period shall be applied of  $96 \pm 4$  hours by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20%.

**Maximum RMS Voltage as a function of frequency**

**PRODUCT MARKING**

Capacitors are marked with having following information;

- 1.Manufacturer (PILKOR)
- 2.Manufacturer's type designation (130 or PCY2 130)
- 3.Rated capacitance in code according to IEC 60062
- 4.Rated (AC) voltage (300V~)
- 5.Sub class (Y2)
- 6.Tolerance on rated capacitance M = ±20 % K = ±10 %
- 7.Climatic category (55/105/21)
- 8.Code for dielectric material (MKP)
- 9.Year and week of manufacturing (e.g. 1301)
- 10.Safety approvals

**Example of marking**

Pitch P = 10 mm



Marking on the side

or



Marking on the side

Pitch P = 15 mm or 22.5 mm or 27.5mm

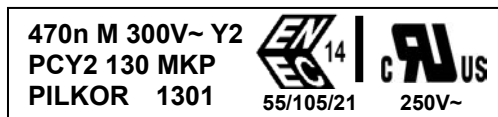


Marking on the top



Marking on the side

Pitch P = 22.5 mm or 27.5mm



Marking on the top

Pitch P = 27.5 mm



Marking on the top



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