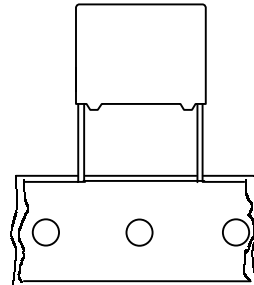
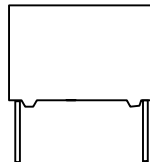


Interference Suppression film capacitors

PCX2 335

MKP RADIAL POTTED CAPACITORS

Pitch 15.0/22.5/27.5 mm



QUICK REFERENCE DATA

Capacitance range (E6 series) *	0.01 μ F to 1.0 μ F
Capacitance tolerance	$\pm 0\%$, $\pm 20\%$
Rated(AC) voltage 50 to 60 Hz	275 V \sim
Climatic category	40/085/21
Rated temperature	85°C
Reference IEC specification	IEC 60384-14 (2 nd edition) and EN 132400
Safety approvals	UL 1414, CSA-C 22.2 No 1 (at 250 V _{AC}) SEV, VDE, S, FI, N, D, IMQ, OVE, EK, ENEC
Materials	Qualified in accordance with UL 94V-0
Safety class	X2

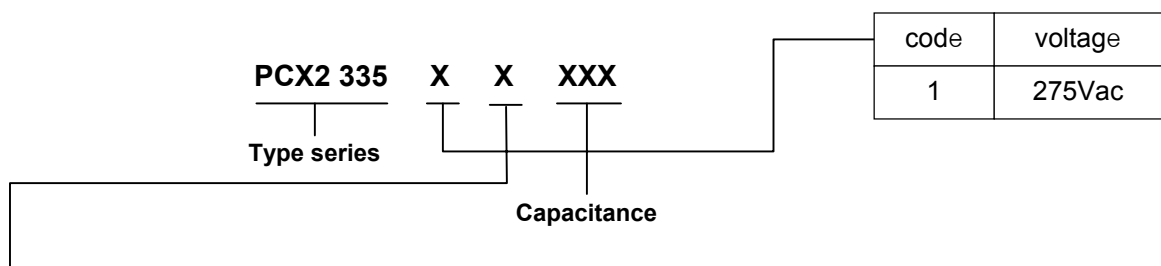
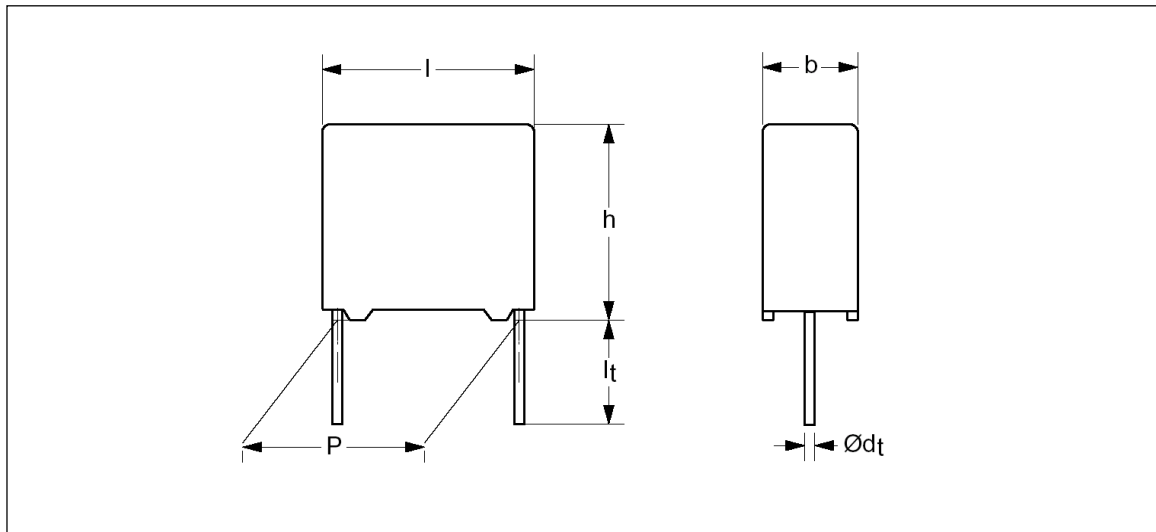
* Intermediate values of the E12 series are available to special order

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> . 15mm to 27.5mm lead pitch . Supplied loose in box and taped on reel . Consist of a low-inductive wound cell of metallized polypropylene film, potted in a flame retardant case 	<ul style="list-style-type: none"> . For X2 – electromagnetic interference suppression. . Special designed to meet the NEW REQUIREMENTS of the new IEC 60384-14 specification (2nd edition)/EN132400 requiring a 2.5KV peak pulse voltage test and the UL1414 and CSA-C 22.2 No. 1 specification.

Interference Suppression film capacitors

PCX2 335

Ordering Information



code	Packing method	Lead configuration	C - tol	12NC
0	Loose in box	$l_t = 5.0 \pm 1.0\text{mm}$	C-tol $\pm 20 \%$	PCX2 335 x0xxx
1	Loose in box	$l_t = 5.0 \pm 1.0\text{mm}$	C-tol $\pm 10 \%$	PCX2 335 x1xxx
4	Loose in box	$l_t = 25 \pm 2.0\text{mm}$	C-tol $\pm 20 \%$	PCX2 335 x4xxx
5	Loose in box	$l_t = 25 \pm 2.0\text{mm}$	C-tol $\pm 10 \%$	PCX2 335 x5xxx
2	Taped on reel	$H = 18.5 \text{ mm}^* / P_0=12.7\text{mm}$	C-tol $\pm 20 \%$	PCX2 335 x2xxx
3	Taped on reel	$H = 18.5 \text{ mm}^* / P_0=12.7\text{mm}$	C-tol $\pm 10 \%$	PCX2 335 x3xxx
6	Ammopack	$H = 18.5 \text{ mm}^* / P_0=12.7\text{mm}$	C-tol $\pm 20 \%$	PCX2 335 x6xxx
7	Ammopack	$H = 18.5 \text{ mm}^* / P_0=12.7\text{mm}$	C-tol $\pm 10 \%$	PCX2 335 x7xxx
C	Loose in box	$l_t = 3.2 \pm 0.3\text{mm}$	C-tol $\pm 20 \%$	PCX2 335 xCxxx
D	Loose in box	$l_t = 3.2 \pm 0.3\text{mm}$	C-tol $\pm 10 \%$	PCX2 335 xDxxx

* H : intape height ; for detailed specifications refer to chapter PACKAGING.

Interference Suppression film capacitors

PCX2 335

SAFETY APPROVALS

UL 1414	E165646	NEMKO	P96100387
CSA-C22.2 No 1	LR 103439	SEMKO	9602122-01
VDE	19798-4670-8001	DEMKO	305188
FI	181596-01	IMQ	V4006
SEV	95,5 51995,01	OVE	C876-000-01
EK	SH03001-2001	ENEC *	SE/0256-3

* 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	
DIMENSIONS	It = 5 ± 1.0 mm	It = 25 ± 2.0 mm
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
7.0 x 16.5 x 26.0	1000	1000
8.5 x 18.0 x 26.0	500	500
10.0 x 19.5 x 26.0	500	500
11.5 x 21.0 x 26.0	500	500
11.0 x 21.0 x 31.0	500	250
15.0 x 25.0 x 31.0	250	250
18.0 x 28.0 x 31.0	200	200

Interference Suppression film capacitors

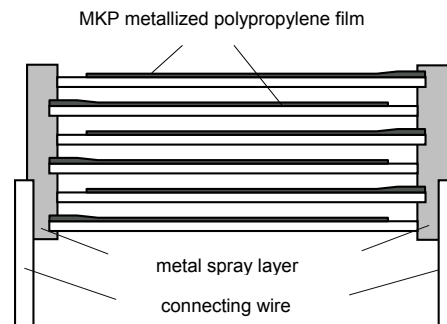
PCX2 335**SPECIFIC REFERENCE DATA FOR 275 V_{AC}**

Tangent of loss angle	at 10 khz
$C \leq 100 \text{ nF}$	$\leq 10 \times 10^{-4}$
$100 \text{ nF} < C \leq 470 \text{ nF}$	$\leq 20 \times 10^{-4}$
$C > 470 \text{ nF}$	$\leq 70 \times 10^{-4}$
Rated voltage pulse slope (dV/dt) _R	100 V/ μ s
R between leads, for $C \leq 0.33 \text{ }\mu\text{F}$	> 30 000 M Ω
RC between leads, for $C > 0.33 \text{ }\mu\text{F}$	> 10 000 s
Test (DC) voltage : rise time 100 V/s	2250 V, 1 min

V_{Rac} = 275 V**loose and taped**

Cap. (μ F)	b x h x l (mm)	Mass (g)	CATALOGUE NUMBER			
			PCX2 335			
			loose in box			
			lt = 5 \pm 1.0 mm		lt = 25 \pm 2.0 mm	
			C – tol. $\pm 20 \%$	C – tol. $\pm 10 \%$	C – tol. $\pm 20 \%$	C – tol. $\pm 10 \%$
Pitch = 15.0 \pm 0.4 mm dt = 0.8 +0.08/-0.05 mm						
0.010	5.0 x 11.0 x 18.0		10103	11103	14103	15103
0.015	5.0 x 11.0 x 18.0		10153	11153	14153	15153
0.022	5.0 x 11.0 x 18.0		10223	11223	14223	15223
0.033	5.0 x 11.0 x 18.0		10333	-	14333	-
0.033	6.0 x 12.0 x 18.0		-	11333	-	15333
0.047	6.0 x 12.0 x 18.0		10473	11473	14473	15473
0.068	7.0 x 13.5 x 18.0		10683	11683	14683	15683
0.10.	8.5 x 15.0 x 18.0		10104	11104	14104	15104
Pitch = 22.5 \pm 0.4 mm dt = 0.8 +0.08/-0.05 mm						
0.15	7.0 x 16.5 x 26.0		10154	11154	14154	15154
0.22	8.5 x 18.0 x 26.0		10224	11224	14224	15224
0.33	10.0 x 19.5 x 26.0		10334	11334	14334	15334
0.47	11.5 x 21.0 x 26.0		10474	-	14474	-
Pitch = 27.5 \pm 0.4 mm dt = 0.8 +0.08/-0.05 mm						
0.47	11.0 x 21.0 x 31.0		-	11474	-	15474
0.68	15.0 x 25.0 x 31.0		10684	11684	14684	15684
1.0.	18.0 x 28.0 x 31.0		10105	11105	14105	15105

CONSTRUCTION



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".

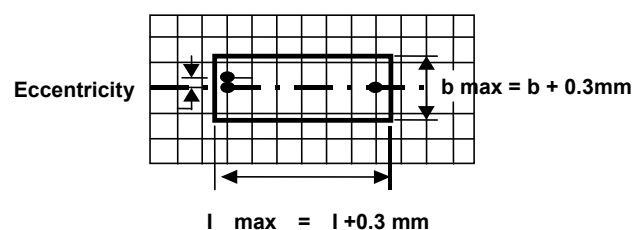
SPECIFIC METHOD OF MOUNTING TO WITHSTAND VIBRATION AND SHOCK

In order to withstand vibration and shock tests, it must be ensured that the stand-off pips 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.

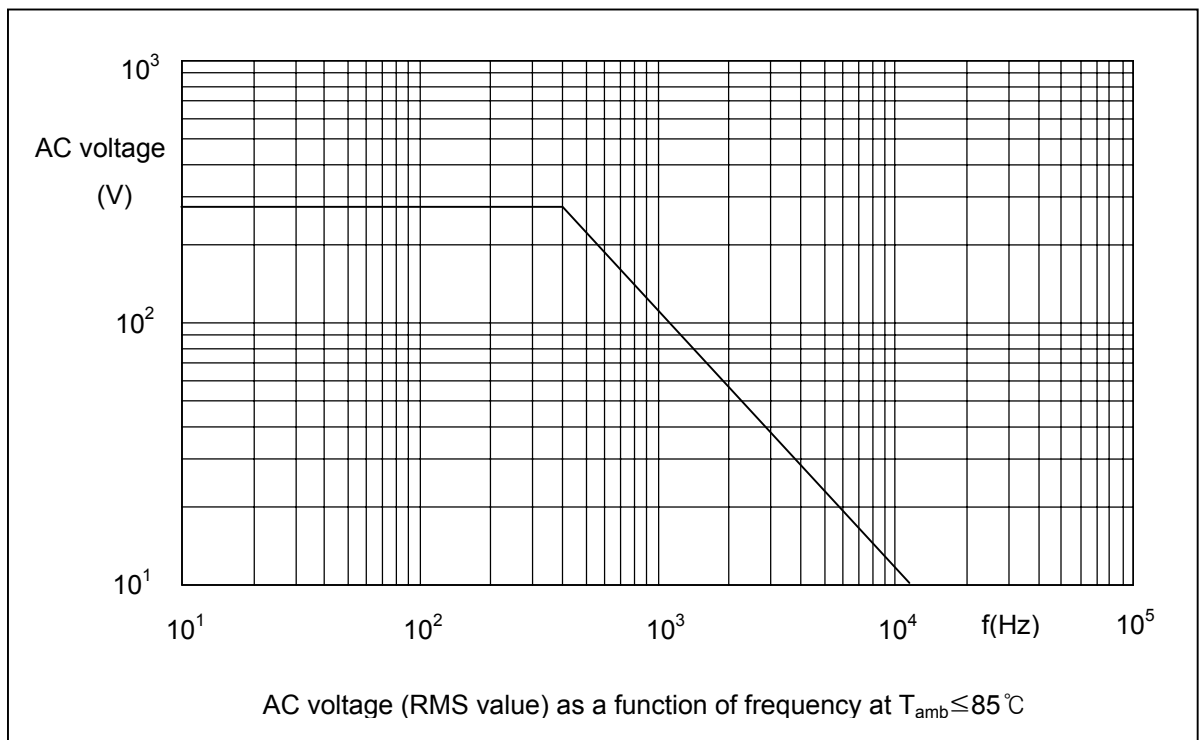
The maximum eccentricity is smaller than or equal to the lead diameter of the product concerned.

- 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 at 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 ± 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 and as a function of frequency

Interference Suppression film capacitors

PCX2 335

PRODUCT MARKING

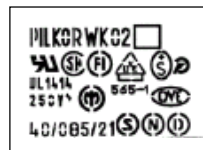
Capacitors are marked by laser print ; on the top (pitch ≥ 22.5 mm) or on the top and one side (pitch = 15mm) with the following information ;

- 1.Manufacturer (PILKOR)
- 2.Manufacturer's type designation (PCX2 335)
- 3.Rated capacitance in code according to IEC 60062
- 4.Rated (AC) voltage (275V~)
- 5.Sub class (X2)
- 6.Tolerance on rated capacitance M = ± 20 % K = ± 10 %
- 7.Climatic category (40/085/21)
- 8.Code for dielectric material (MKP)
- 9.Year and week of manufacturing (e.g. WK9601)
- 10.Safety approvals

Example of marking

22n M 275V~ X2
PCX2 335 MKP

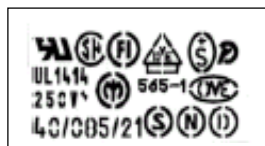
Marking on the top



Marking on the side

or

470n M 275V~
PCX2 335 MKP X2
PILKOR WK....



Marking on the top