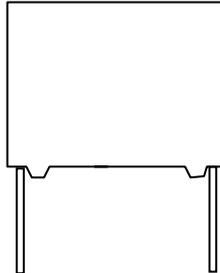


**Metallized Polyester
film capacitors**

PCPW 223

MKT RADIAL POTTED CAPACITORS

Pitch 15.0/20.0/22.5mm



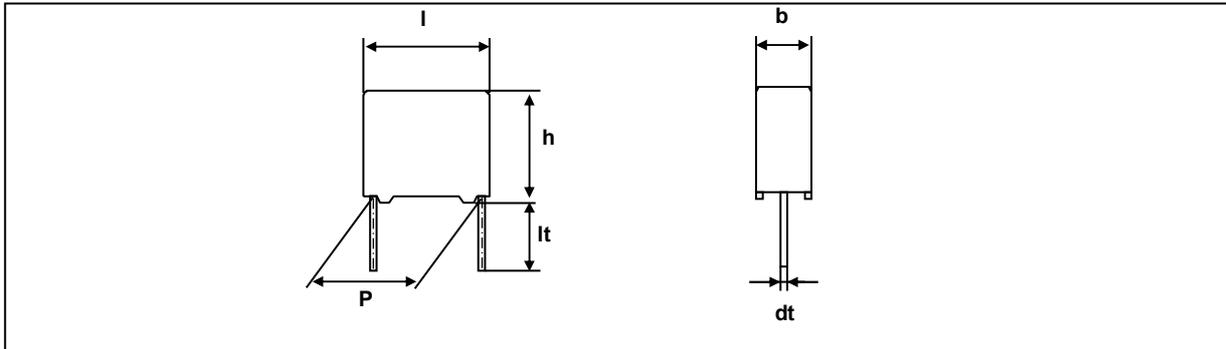
QUICK REFERENCE DATA

Capacitance range	4.7 μ F ~ 22 μ F
Capacitance tolerance	\pm 10%
Rated voltage (DC)	35V, 100V
Climatic category	40/105/21
Temperature range	-40 $^{\circ}$ C ~ + 105 $^{\circ}$ C
Reference specification	IEC 60384-2 & Tested acc. with AEC-Q200
Potting & Encapsulation material	Qualified in accordance with UL94V-0

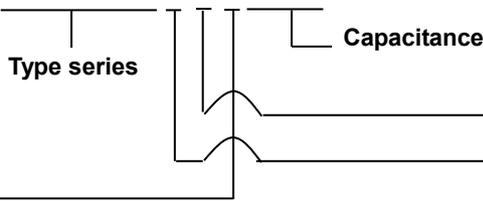
<p>FEATURES</p> <ul style="list-style-type: none"> . Low inductive wound cell of metallized(PET) film . Supplied loose in box 	<p>APPLICATIONS</p> <ul style="list-style-type: none"> . Blocking . Bypassing/Coupling/Decoupling . RFI for automotive . High current applications
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• Design and specifications are subjected to change without notice. Please refer to caution and warning at <http://www.pilkor.co.kr/sub/download/Introductions.pdf> before using these products.

Ordering Information



PCPW 223 X X X X X X



Code	Voltage
V	35V
2	100V

Code	Pitch
F	15.0mm
H	20.0mm
J	22.5mm

Available versions				Product (I _{max})		
Code	Packing method	C – tol.	Lead length & tol.	18.0	23.5	26.0
				Pitch (P)		
1	Loose in box	±10%	lt = 5.0±1.0mm	15.0	20.0	22.5
2	Loose in box	±10%	lt = 25.0±2.0mm	15.0	20.0	22.5

Packing Information

Smallest Packing Quantities (SPQ)	Loose in box	Loose in box
	Lt = 5.0 ± 1.0mm	Lt = 25.0 ± 2.0mm
Dimensions	SPQ	SPQ
8.5 x 15.0 x 18.0	1000	1000
11.0 x 18.5 x 18.0	1000	1000
11.0 x 22.5 x 23.5	500	500
12.5 x 23.0 x 26.0	500	500
13.0 x 23.0 x 26.0	500	500

Metallized Polyester film capacitors

PCPW 223

 $V_{Rdc} = 35 V$

Cap. (μF)	b x h x l (mm)	Mass (g)	CATALOGUE NUMBER
			PCPW 223.....
			loose in box
			It= 25.0 \pm 2.0 mm
			C - tol. \pm 10%
Pitch = 15.0 \pm 0.4 mm			dt = 0.8 + 0.08 / -0.05 mm
2.2	6.0 x 12.0 x 18.0	1.4	FV2225
3.3	7.0 x 13.5 x 18.0	1.9	FV2335
4.7	8.5 x 15.0 x 18.0	2.6	FV2475
5.6	10.0 x 16.5 x 18.0	3.1	FV2565
6.2	10.0 x 16.5 x 18.0	3.1	FV2625
8.2	11.0 x 18.5 x 18.0	4.1	FV2825
9.4	11.0 x 18.5 x 18.0	4.1	FV2945
Pitch = 20.0 \pm 0.4 mm			dt = 0.8 + 0.08 / -0.05 mm
19.0	11.0 x 22.5 x 23.5	7.5	HV2196
Pitch = 22.5 \pm 0.4 mm			dt = 0.8 + 0.08 / -0.05 mm
19.0	12.5 x 23.0 x 26.0	9.2	JV2196
22.0	13.0 x 23.0 x 26.0	9.9	JV2226

 $V_{Rdc} = 100 V$

Cap. (μF)	b x h x l (mm)	Mass (g)	CATALOGUE NUMBER
			PCPW 223.....
			loose in box
			It= 25.0 \pm 2.0 mm
			C - tol. \pm 10%
Pitch = 15.0 \pm 0.4 mm			dt = 0.8 + 0.08 / -0.05 mm
2.2	6.0 x 12.0 x 18.0	1.4	F22225
3.3	7.0 x 13.5 x 18.0	1.9	F22335
4.7	8.5 x 15.0 x 18.0	2.6	F22475
5.6	10.0 x 16.5 x 18.0	3.1	F22565
6.2	10.0 x 16.5 x 18.0	3.1	F22625
8.2	11.0 x 18.5 x 18.0	4.1	F22825
9.4	11.0 x 18.5 x 18.0	4.1	F22945
Pitch = 22.5 \pm 0.4 mm			dt = 0.8 + 0.08 / -0.05 mm
19.0	12.5 x 23.0 x 26.0	9.2	J22196
22.0	13.0 x 23.0 x 26.0	9.9	J22226

MOUNTING

NORMAL USE

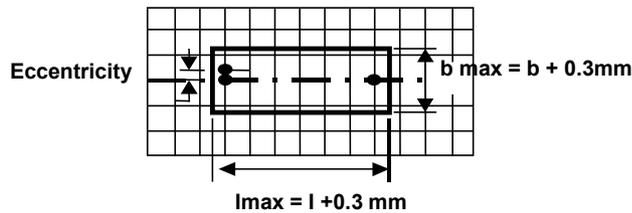
The capacitors are designed for mounting on printed-circuit boards. The capacitors packed in bandoliers are designed for mounting on printed-circuit boards by means of automatic insertion machines.

SPECIFIC METHOD OF MOUNTING TO WITHSTAND VIBRATION AND 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.

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 : $h_{max} \leq h + 0.3 \text{ mm}$

STORAGE TEMPERATURE

- . Storage temperature : $T_{stg} = -25 \text{ to } +40 \text{ }^\circ\text{C}$ with RH maximum 80% without condensation.

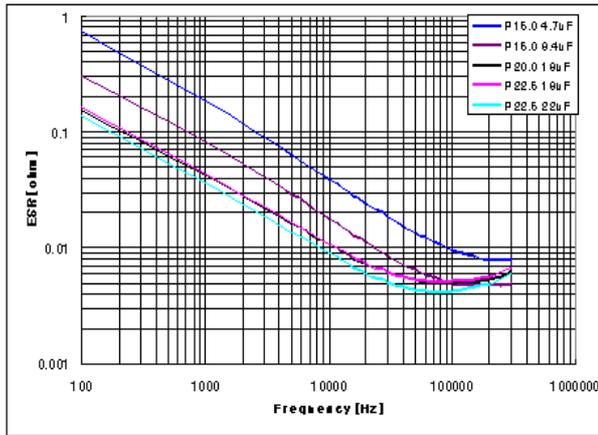
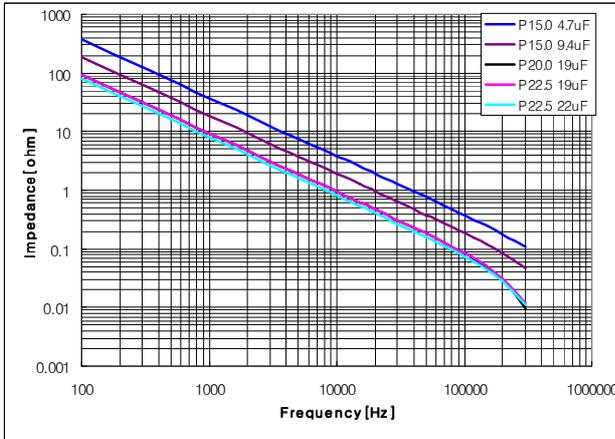
RATINGS AND CHARACTERISTICS

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

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%.

CHARACTERISTICS

● Impedance & ESR as a function of frequency[Hz]

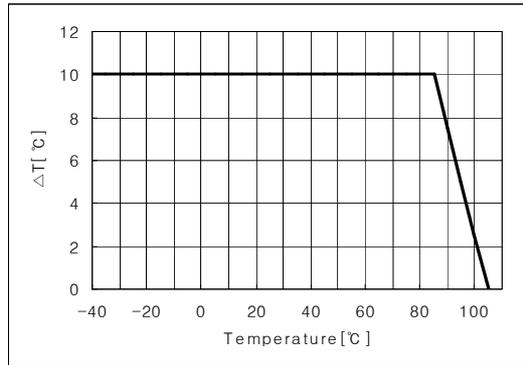
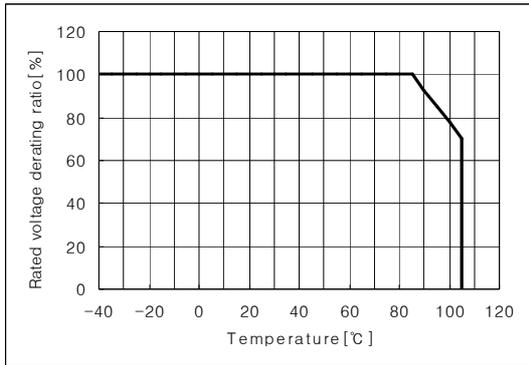


● Rated Voltage Pulse Load Slope(dV/dt)_R

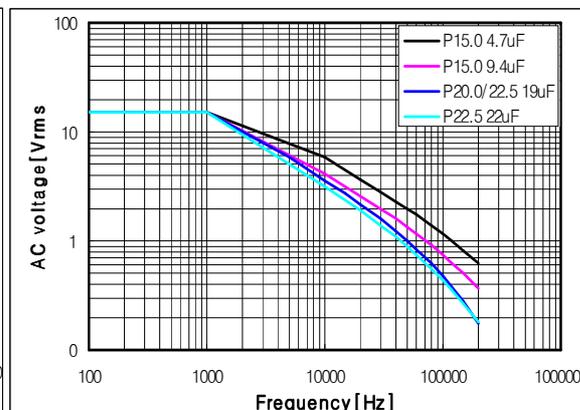
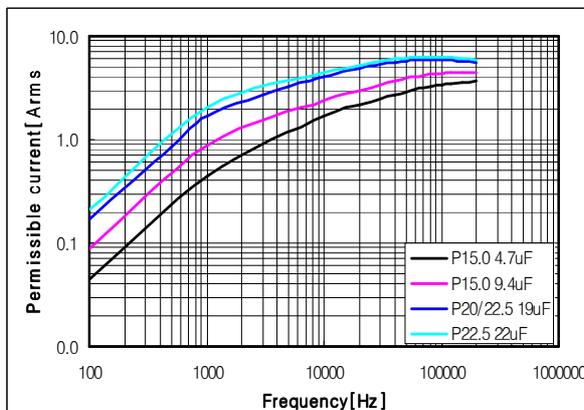
. For values see specific reference data. IF the pulse voltage is lower than the rated voltage, values of the specific reference data must be multiplied by V_{Rdc} and divided by the applied voltage

Rated voltage	MAXIMUM RATED VOLTAGE PULSE SLOPE (V/ μ s)		
	P = 15.0 mm	P = 20.0 mm	P = 22.5mm
35V / 100V	9.2	9.2	3.0

● Maximum DC voltage & self heating temp. as a function of ambient temperature



● Maximum permissible current($T_{amb.} < 85^\circ C$) or Voltage(V_{rms}) as a function of frequency



PRODUCT MARKING

The capacitors are marked with the following information :

- . Rated capacitance in code according to IEC 60062 (19u ; 19uF)
- . Tolerance on rated capacitance (K : $\pm 10\%$)
- . Rated DC voltage (35V)
- . Manufacturer's mark (PILKOR)
- . Manufacturer's type designation (PCPW 223 ; 223)
- . Code for dielectric material (MKT)
- . Date code number (WK....)
- . White or black color

Example of marking

19u K 35V
223 MKT

Marking on the top

PILKOR
WK....

Marking on the side

or

19u K 35V PILKOR
223 MKT WK....

Marking on the top