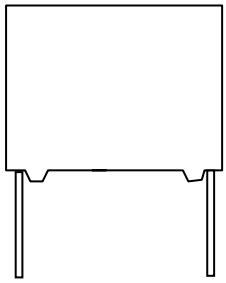
Metallized Polyester film capacitors

PCPW 223

MKT RADIAL POTTED CAPACITORS **Pitch 15.0/20.0/22.5mm**



QUICK REFERENCE DATA

Capacitance range	4.7μF ~ 22μF
Capacitance tolerance	±10%
Rated voltage (DC)	35V
Climatic category	40/105/21
Temperature range	-40℃ ~ + 105℃
Reference specification	IEC 60384-2 & *)Tested acc. with AEC-Q200
Potting & Encapsulation material	Qualified in accordance with UL94V-0

*) Some test result does not meet AEC Q200, which is described in Supplement.

FEATURES	APPLICATIONS
. Low inductive wound cell of metalized(PET) film	. Blocking
. Supplied loose in box	. Bypassing/Coupling/Decoupling
	. RFI for automotive
	. High current applications

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

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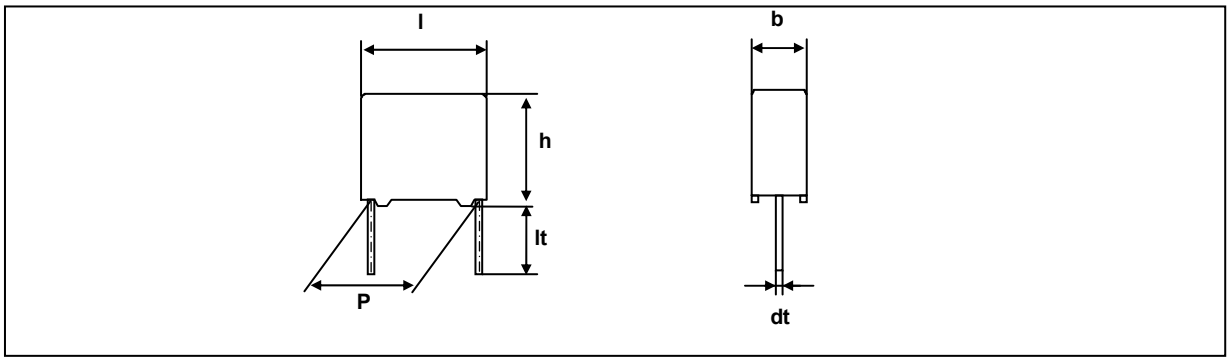
Ordering Information



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Type series

Capacitance

Code	Voltage
V	35V

Code	Pitch
F	15.0mm
H	20.0mm
J	22.5mm

Available versions				Product (l_{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(max.)	SPQ	SPQ
8.5 x 15.0 x 18.0	1000	4000
11.0 x 18.5 x 18.0	1000	4000
11.0 x 22.5 x 23.5	500	2000
12.5 x 23.0 x 26.0	500	2000
13.0 x 23.0 x 26.0	500	2000

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V_{Rdc} = 35 V

Cap. (μF)	$b_{max.}$ x $h_{max.}$ x $l_{max.}$ (mm)	Mass (g)	CATALOGUE NUMBER PCPW 223…… loose in box lt= 25.0 ± 2.0 mm C – tol. ± 10%
Pitch = 15.0 ± 0.4 mm			dt = 0.8 + 0.08 / -0.05 mm
4.7	8.5 x 15.0 x 18.0	3.1	FV2475
5.6	10.0 x 16.5 x 18.0	-	FV2565
6.8	10.0 x 16.5 x 18.0	-	FV2685
8.2	11.0 x 18.5 x 18.0	-	FV2825
9.4	11.0 x 18.5 x 18.0	4.9	FV2945
Pitch = 20.0 ± 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 ± 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

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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.

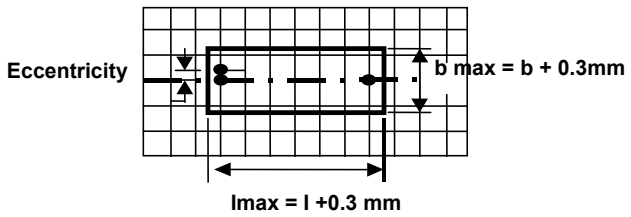
SPECIFIC METHOD OF MOUNTING TO WITHSTAND VIBRATIONAND SHOCK

. 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.

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+0.3mm

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 96 ±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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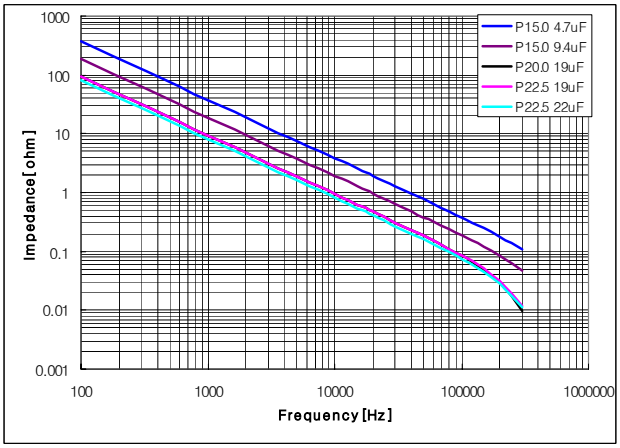
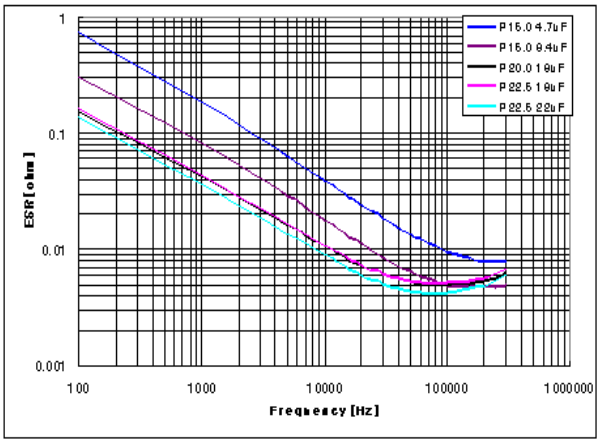
CHARACTERISTICS

- **Impedance & ESR as a function of frequency[Hz]**



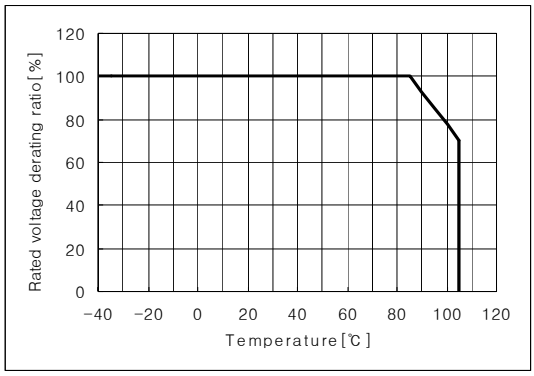


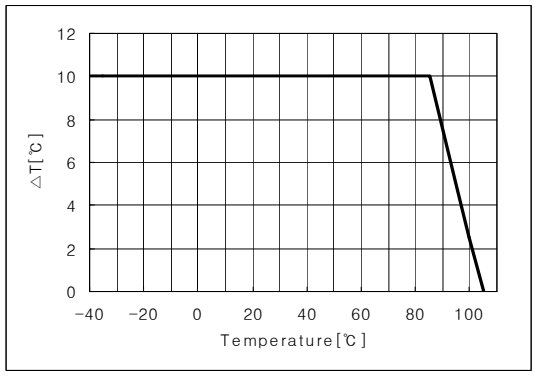
- **Rated Voltage Pulse Load Slope$(dV/dt)_R$**

. 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

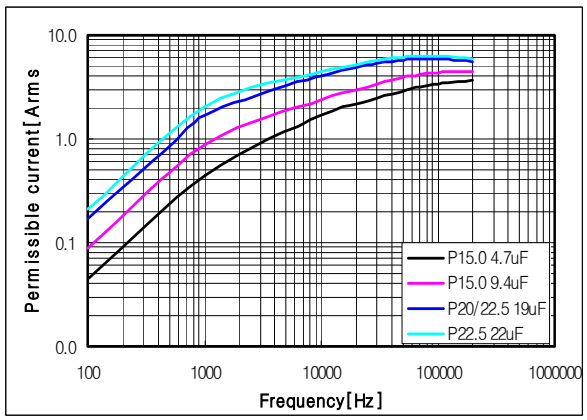
Rated voltage	MAXIMUM RATED VOLTAGE PULSE SLOPE (V/μs)		
	P = 15.0 mm	P = 20.0 mm	P = 22.5mm
35V	9.2	9.2	3.0

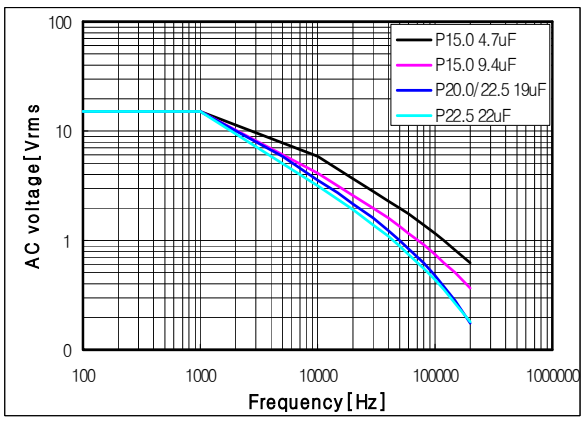
- **Maximum DC voltage & self heating temp. as a function of ambient temperature**





- **Maximum permissible current($T_{amb.}$< 85℃) or Voltage(Vrms) as a function of frequency**





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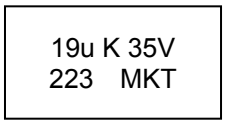
PRODUCT MARKING

The capacitors are marked with the following informations :
. Rated capacitance in code according to IEC 60062 (19u ; 19uF)
. Tolerance on rated capacitance (K : ±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.…)

Example of marking

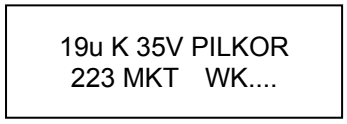
Pitch = 15.0/20.0/22.5mm



Marking on the top

Marking on the side

or



Marking on the top