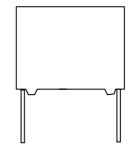
## **Metallized Polyester**

## film capacitors

#### MKT RADIAL POTTED CAPACITORS

Pitch 15.0/20.0/22.5mm



#### QUICK REFERENCE DATA

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

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

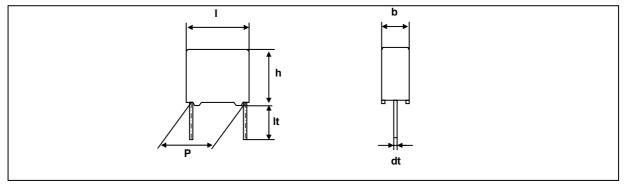
FEATURES	APPLICATIONS
. Low inductive wound cell of metalized(PET) film	. Blocking
. Supplied loose in box	. Bypassing/Coupling/Decoupling
	. RFI for automotive
	. High current applications

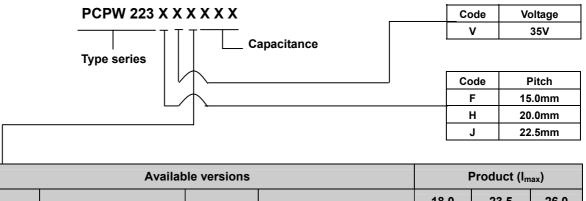
• Please refer to caution and warning at <u>http://www.pilkor.co.kr/download/Introductions.pdf</u> before using these products.

# Metallized Polyester

# film capacitors

### **Ordering Information**





Code	Packing method	C – tol.	Lead length & tol.	18.0	23.5	26.0
oout	r deking method	0 - 101.			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	Loose in box	Loose in box
(SPQ)	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

# Metallized Polyester film capacitors

 $V_{Rdc} = 35 V$ 

			CATALOGUE NUMBER	
	b <sub>max.</sub> x h <sub>max.</sub> x I <sub>max.</sub> (mm)	Mass (g)	PCPW 223 loose in box	
Cap.				
( <i>µ</i> F)			lt= 25.0 ± 2.0 mm	
			C – tol. ± 10%	
Pitch = 15.0 ± 0.4 mm		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	

# Metallized Polyester film capacitors

#### 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.

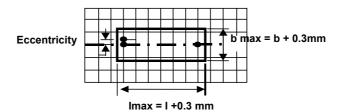
SPECIFIC METHOD OF MOUNTING TO WITHSTAND VIBRATIONAND SHOCK

. 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  $^\circ\!\!\mathbb{C}$  with RH maximum 80% without condensation.

#### **RATINGS AND CHARACTERISTICS**

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

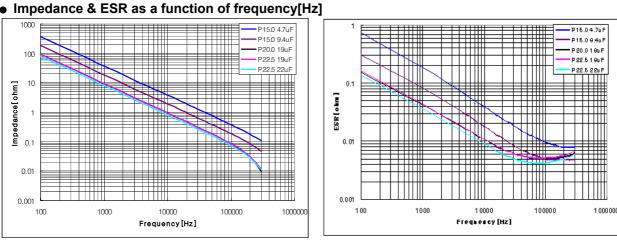
For reference testing a conditioning period shall be applied of 96  $\pm$ 4 hours by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20%.

## Metallized Polyester

### film capacitors

**PCPW 223** 

#### CHARACTERISTICS

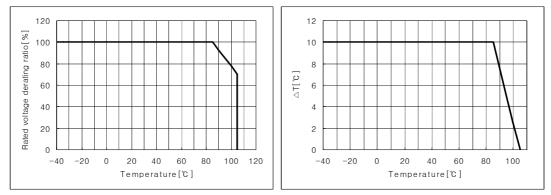


#### • Rated Voltage Pulse Load Slope(dV/dt)<sub>R</sub>

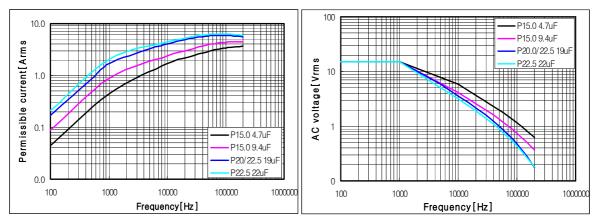
. For values see specific reference data. IF the pulse voltage is lower than the rated voltage, values of the specific reference data must be multiplied by  $V_{Rdc}$  and divided by the applied voltage

Rated voltage	MAXIMUM RATED VOLTAGE PULSE SLOPE (V/μs)			
Nateu voltage	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<sub>amb.</sub>< 85°C) or Voltage(Vrms) as a function of frequency



# Metallized Polyester film capacitors

#### PRODUCT MARKING

The capacitors are marked with the following informations :

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

#### Example of marking

Pitch = 15.0/20.0/22.5mm

