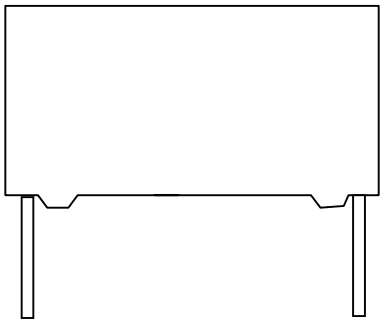
Metallized Polypropylene Film Capacitors PCPW 225
(Switching Application)



QUICK REFERENCE DATA

Capacitance range	1.0μF to 10μF
Capacitance tolerance	±10%, (±5%)
Rated voltage (DC)	250V, 450V, 630V, 850V
IEC Climatic category	40/ 105/ 56
Temperature range	-40℃ ~ +105℃
Reference	IEC 60384-16 / IEC61071
Potting & Encapsulation material	Qualified in accordance with UL94V-0

FEATURES	APPLICATIONS
. Self-Healing	. Switching applications.
. Low contact resistance	. DC- filtering applications
. Low loss dielectric	DC-link applications
. High ripple current	. Protection of semiconductors such as IGBT,IPM, MOSFET

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

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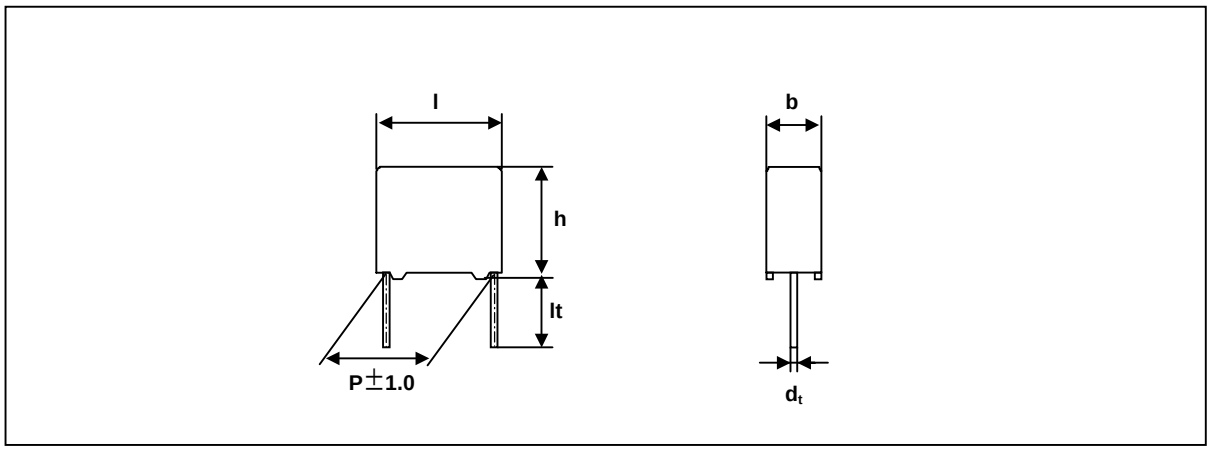
Ordering Information



PCPW 225 X X X X X X

Type series

Capacitance

Code	Voltage
4	250V
L	450V
6	630V
M	850V

Code	Original pitch
L	27.5mm

Available versions				Product (l_{max})
Code	Packing method	C-tol.	Lead length & Height	31.0
				Pitch (P)
2	Loose in box	±10%	lt = 5.0±1.0mm	27.5
3	Loose in box	±10%	lt = 20 mm (Min)	27.5

Packing Information

SMALLEST PACKING QUANTITIES (SPQ)	Loose in box
	lt = 5.0±1.0mm
11.0 x 21.0 x 31.0	500
13.0 x 23.0 x 31.0	250
15.0 x 25.0 x 31.0	250
18.0 x 28.0 x 31.0	200
21.0 x 31.0 x 31.0	150

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V_{Rdc} = 250V V_{Rac} = 160 V~ Vpeak = 400 V

Cap (µF)	b x h x l (mm)	d_t (mm)	P (mm)	dv/dt (V/us)	I_{peak} (A)	I_{Rms} (A)*	Code ± 10%, lt = 5±1 mm
1.0 1.5 2.0 2.2	11.0 X 21.0 X 31.0	0.8	27.5	30	30 45 60 66	5 7 7 7	PCPW 225L42105 PCPW 225L42155 PCPW 225L42205 PCPW 225L42225
3.0 3.3	13.0 X 23.0 X 31.0	0.8	27.5	30	99	7	PCPW 225L42305 PCPW 225L42335
5.0	15.0 X 25.0 X 31.0	1.2	27.5	30	150	12	PCPW 225L42505
6.8	18.0 X 28.0 X 31.0	1.2	27.5	30	204	12	PCPW 225L42685
9.0 10.0	21.0 X 31.0 X 31.0	1.2	27.5	30	270 -	12 -	PCPW 225L42905 In progress

V_{Rdc} = 450V V_{Rac} = 250 V~ Vpeak = 600 V

Cap (µF)	b x h x l (mm)	d_t (mm)	P (mm)	dv/dt (V/us)	I_{peak} (A)	I_{Rms} (A)*	Code ± 10%, lt = 5±1 mm
1.0 1.5	11.0 X 21.0 X 31.0	0.8	27.5	55	55 82	8 8	PCPW 225LL2105 PCPW 225LL2155
2.0 2.2	13.0 X 23.0 X 31.0	0.8	27.5	55	110 121	9 9	PCPW 225LL2205 PCPW 225LL2225
3.0 3.3	15.0 X 25.0 X 31.0	1.2	27.5	55	165 181	12 12	PCPW 225LL2305 PCPW 225LL2335
4.0	18.0 X 28.0 X 31.0	1.2	27.5	55	220	12	PCPW 225LL2405
5.0	21.0 X 31.0 X 31.0	1.2	27.5	55	275	12	PCPW 225LL2505
6.8	28.0 x 37.0 x 42.5	1.2	37.5	-	-	-	In progress
10.0	30.0 x 45.0 x 42.5	1.2	37.5	-	-	-	In progress

V_{Rdc} = 630 V V_{Rac} = 330 V~ Vpeak = 800 V

Cap (µF)	b x h x l (mm)	d_t (mm)	P (mm)	dv/dt (V/us)	I_{peak} (A)	I_{Rms} (A)*	Code ± 10%, lt = 5±1 mm
1.0	13.0 X 23.0 X 31.0	0.8	27.5	75	75	8	PCPW 225L62105
1.5	15.0 X 25.0 X 31.0	1.2	27.5	75	112	12	PCPW 225L62155
2.0 2.2	18.0 X 28.0 X 31.0	1.2	27.5	75	150 165	12 12	PCPW 225L62205 PCPW 225L62225
3.0	21.0 X 31.0 X 31.0	1.2	27.5	75	225	12	PCPW 225L62305
4.0 5.0	28.0 x 37.0 x 42.5	1.2	37.5	-	-	-	In progress
6.0	30.0 x 45.0 x 42.5	1.2	37.5	-	-	-	In progress

V_{Rdc} = 850 V V_{Rac} = 330 V~ Vpeak = 1200 V

Cap (µF)	b x h x l (mm)	d_t (mm)	P (mm)	dv/dt (V/us)	I_{peak} (A)	I_{Rms} (A)*	Code ± 10%, lt = 5±1 mm
1.0	21.0 X 31.0 X 31.0	1.2	27.5	148	148	12	PCPW 225LM2105
2.2	28.0 x 37.0 x 42.5	1.2	37.5	-	-	-	In progress
3.3	30.0 x 45.0 x 42.5	1.2	37.5	-	-	-	In progress

(*)100kHz@70°C

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CHARACTERISTICS

● **Test Votage**

. Test Voltage (between terminations) : 1.5 x V_{Rdc}, 10s (1 min for type test)

. Test Voltage (between leads and case) : 3KV- 50Hz(or 60Hz) for 60 seconds

● **Dissipation Factor**

Rated voltage	Capacitance	Tangent of loss angle (x 10^{-4})	
		1 kHz	10 kHz
250 V	C ≤ 1.0 μF	≤ 10	≤ 12
	1.0 μF < C ≤ 5.0 μF	≤ 10	≤ 20
	5.0 μF < C ≤ 10.0 μF	≤ 10	
450 V	C ≤ 1.0 μF	≤ 10	≤ 12
	1.0 μF < C ≤ 5.0 μF	≤ 10	≤ 20
	5.0 μF < C ≤ 10.0 μF	≤ 10	
630 V	C ≤ 1.0 μF	≤ 10	≤ 12
	1.0 μF < C ≤ 6.0 μF	≤ 10	≤ 20
850 V	C ≤ 1.0 μF	≤ 10	≤ 12
	1.0 μF < C ≤ 3.3 μF	≤ 10	≤ 20

● **Insulation Resistance**

The insulation resistance is measured for 1min ±5s, at 100V

RC (Ω·F) > 30,000 s

● **Self heating temperature ;** Max 10℃

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PRODUCT MARKING

Capacitors are marked with the following information :

. Rated capacitance code in accordance with IEC 60062

. Tolerance on rated capacitance : J : ± 5 % K : ± 10 %

. Rated (DC) Voltage (e.g. 450 V)

. Code for dielectric material (MKP)

. Manufacturer's type designation (PCPW 225)

. Manufacturer's name (PILKOR)

Example of marking

3u3	K	450V	PILKOR
PCPW 225		MKP	WK....

Marking on the top or side