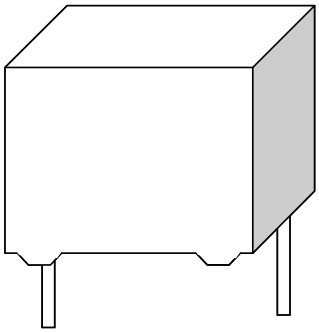
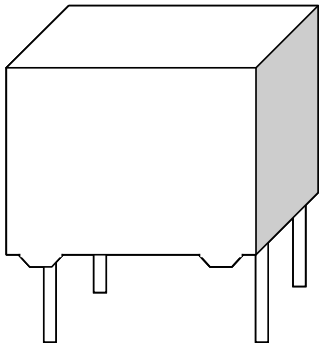
Metallized Polypropylene film capacitors PCPW 226
(Switching Application)





QUICK REFERENCE DATA

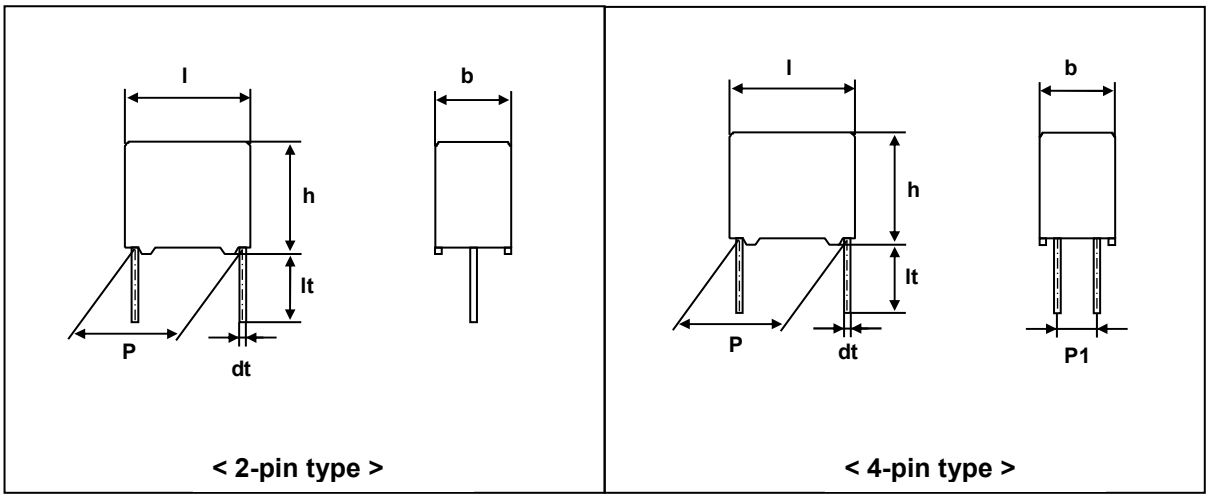
Capacitance range	1.0 to 30 μF
Capacitance tolerance	±5%, ±10%
Rated voltage (VRdc)	250, 450, 630, 850
Max. repetitive peak voltage (Vpkr)	1.15 x VR (max. 30min. within one day)
Max. non-repetitive peak current (Ipkr)	1.5 x Ipk
IEC Climatic category	40/ 105 / 56
Temperature range	-40℃ ~ +105℃
Life time expectancy	100,000 hours at VR, 70℃
	40,000 hours at VR, 85℃
Reference	IEC 60384-16 / IEC61071
Potting & Encapsulation material	Qualified in accordance with UL94V-0

FEATURES	APPLICATIONS
. Self-Healing	. Switching applications.
. Low contact resistance	. High frequency, high current applications
. Low loss dielectric	. Industrial and motor speed control
. High ripple current	. induction heater

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

Metallized Polypropylene film capacitors (Switching Application) PCPW 226

Ordering Information



P	2	2	6	H	A	L	1	0	5	K	A	L	J
1~4				5~6		7	8~10			11	12	13~14	

1~4	
Code	Series Name
P226	PCPW 226

5~6	
Code	Voltage
BA	250V
DA	450V
FA	630V
HA	850V

7	
Code	Original Pitch
L	27.5mm
Q	37.5mm

8~10	
Code	Capacitance (example)
105	1.0uF
106	10uF

11	
Code	Capacitance Tolerance
J	± 5 %
K	± 10 %

12	
Code	Revision
A	Standard
L	Low propile

13~14				Product(lmax)	
				31.0	42.0
Code	Packing Method	Lead length & Height	Lead Type	Pitch(P)	
LJ	Loose in box	lt= 5.0±1.0mm	2-pin	27.5	-
LK	Loose in box	lt= 25.0±2.0mm	2-pin	27.5	-
GJ	Arrange Pack.	lt= 5.0±1.0mm	2-pin	27.5	37.5
PJ	Arrange Pack.	lt= 5.0±1.0mm	4-pin	-	37.5

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Packing Information

SMALLEST PACKING QUANTITIES (SPQ)	Loose in box		Arrange Pack.
	lt = 5.0 ± 1.0mm	lt = 25.0 ± 2.0mm	lt = 5.0 ± 1.0mm
11.0 x 21.0 x 31.0	500	250	100
13.0 x 23.0 x 31.0	250	250	100
15.0 x 25.0 x 31.0	250	250	120
18.0 x 28.0 x 31.0	200	200	100
21.0 x 31.0 x 31.0	150	150	60
24.0 x 17.0 x 42.0	-	-	65
28.0 x 20.0 x 42.0	-	-	65
18.0 x 33.0 x 42.0	-	-	100
20.0 x 35.0 x 42.0	-	-	90
24.0 x 39.0 x 42.0	-	-	75
28.0 x 43.0 x 42.0			65
30.0 x 45.0 x 42.0			60

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V_{Rdc} = 250V

Cap (μF)	b x h x l (mm)	P1 ±0.5 (mm)	dv/dt (V/us)	Ipk (A)	Irms(1) (A)		ESR(2) (mΩ)		Code P226…… Arrange Pack. Tol. ±10% / lt = 5±1 mm	
		4-pin			2-pin	4-pin	2-pin	4-pin	2-pin	4-pin
Pitch = 27.5 ± 0.4 mm									dt = 0.8	dt = 1.2
1.0 2.2 3.3	11.0 x 21.0 x 31.0	-	55	55 121 182	4.4 5.3 5.5	-	10.1 7.1 8.0	-	BAL105KAGJ BAL225KAGJ BAL335KAGJ	-
4.7 5.0	13.0 x 23.0 x 31.0	-	55	259 275	5.8 6.0	-	6.6 6.3	-	BAL475KAGJ BAL505KAGJ	-
5.6 6.8	15.0 x 25.0 x 31.0	-	55	308 374	6.3 7.0	-	5.8 5.0	-	BAL565KAGJ BAL685KAGJ	-
8.0 10	18.0 x 28.0 x 31.0	-	55	440 550	7.6 8.6	-	4.4 3.4	-	BAL805KAGJ BAL106KAGJ	-
Pitch = 37.5 ± 0.7 mm									dt = 1.0	dt = 1.2
13	20.0 X 30.0 X 42.0	10.2	22	286	6.6	7.1	7.0	6.5	BAQ136KAGJ	BAQ136KAPJ
16	24.0 X 35.0 X 42.0	10.2	22	352	6.9	7.5	6.6	6.0	BAQ166KAGJ	BAQ166KAPJ
23	28.0 X 39.0 X 42.0	10.2	22	506	7.9	8.4	5.6	5.1	BAQ236KAGJ	BAQ236KAPJ
30	30.0 X 43.0 X 42.0	10.2	22	660	8.7	8.2	4.7	4.2	BAQ306KAGJ	BAQ306KAPJ

V_{Rdc} = 450V

Cap (μF)	b x h x l (mm)	P1 ± 0.5 (mm)	dv/dt (V/us)	Ipk (A)	Irms(1) (A)		ESR(2) (mΩ)		Code P226…… Arrange Pack. Tol. ± 10% / lt = 5± 1 mm	
		4-pin			2-pin	4-pin	2-pin	4-pin	2-pin	4-pin
Pitch = 27.5 ± 0.4 mm									dt = 0.8	dt = 1.2
1.0 2.2	11.0 x 21.0 x 31.0	-	70	70 154	4.4 5.3	-	10.1 7.1	-	DAL105KAGJ DAL225KAGJ	-
3.3	13.0 x 23.0 x 31.0	-	70	231	6.5	-	5.8	-	DAL335KAGJ	-
3.9	15.0 x 25.0 x 31.0	-	70	273	7.0	-	5.2	-	DAL395KAGJ	-
4.7 5.0 5.6	18.0 x 28.0 x 31.0	-	70	329 350 392	7.7 7.8 8.3	-	4.6 4.3 4.1	-	DAL475KAGJ DAL505KAGJ DAL565KAGJ	-
6.8 8.0	21.0 x 31.0 x 31.0	-	70	476 560	8.9 9.2	-	3.4 2.9	-	DAL685KAGJ DAL805KAGJ	-
Pitch = 37.5 ± 0.7 mm									dt = 1.0	dt = 1.2
3.3	24.0 X 17.0 X 42.0	-	54	178	4.1	4.6	3.8	3.3	DAQ335KLGJ	-
6.0	28.0 X 20.0 X 42.0	-	54	324	5.5	6.2	5.2	4.6	DAQ605KLGJ	-
8.5	20.0 X 30.0 X 42.0	10.2	54	432	6.8	7.5	6.5	5.8	DAQ855KAGJ	DAQ855KAPJ
10	24.0 X 35.0 X 42.0	10.2	54	540	7.6	8.3	5.7	5.2	DAQ106KAGJ	DAQ106KAPJ
14	28.0 X 39.0 X 42.0	10.2	54	756	8.5	9.2	4.8	4.2	DAQ146KAGJ	DAQ146KAPJ
19	30.0 X 43.0 X 42.0	10.2	54	1026	9.0	9.6	4.6	4.1	DAQ196KAGJ	DAQ196KAPJ

(1) Max. at 100KHz, +70°C

(2) Typical values at 100KHz

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V_{Rdc} = 630V

Cap (μF)	b x h x l (mm)	P1 ± 0.5 (mm)	dv/dt (V/us)	Ipk (A)	Irms(1) (A)		ESR(2) (mΩ)		Code P226…… Arrange Pack. Tol. ± 10% / lt = 5± 1 mm	
		4-pin			2-pin	4-pin	2-pin	4-pin	2-pin	4-pin
Pitch = 27.5 ± 0.4 mm									dt = 0.8	dt = 1.2
1.0	11.0 x 21.0 x 31.0	-	90	90	4.4	-	10.1	-	FAL105KAGJ	-
2.2	15.0 x 25.0 x 31.0	-	90	198	6.0	-	6.9	-	FAL225KAGJ	-
3.3	18.0 x 28.0 x 31.0	-	90	297	7.2	-	5.2	-	FAL335KAGJ	-
3.9	21.0 x 31.0 x 31.0	-	90	351	7.8	-	4.5	-	FAL395KAGJ	-
Pitch = 37.5 ± 0.7 mm									dt = 1.0	dt = 1.2
5.0	18.0 X 33.0 X 42.0	10.2	73	365	5.9	6.4	7.8	7.2	FAQ505KAGJ	FAQ505KAPJ
6.5	20.0 X 35.0 X 42.0	10.2	73	438	7.1	7.6	6.3	5.8	FAQ655KAGJ	FAQ655KAPJ
7	24.0 X 35.0 X 42.0	10.2	73	511	7.6	8.0	5.8	5.2	FAQ705KAGJ	FAQ705KAPJ
8	24.0 X 39.0 X 42.0	10.2	73	584	8.0	8.5	5.3	4.8	FAQ805KAGJ	FAQ805KAPJ
10	28.0 X 39.0 X 42.0	10.2	73	730	8.5	8.9	4.8	4.2	FAQ106KAGJ	FAQ106KAPJ
13	30.0 X 43.0 X 42.0	10.2	73	949	8.9	9.3	4.6	4.1	FAQ136KAGJ	FAQ136KAPJ

V_{Rdc} = 850V

Cap (μF)	b x h x l (mm)	P1 ± 0.5 (mm)	dv/dt (V/us)	Ipk (A)	Irms(1) (A)		ESR(2) (mΩ)		Code P226…… Arrange Pack. Tol. ± 10% / lt = 5± 1 mm	
		4-pin			2-pin	4-pin	2-pin	4-pin	2-pin	4-pin
Pitch = 27.5 ± 0.4 mm									dt = 0.8	dt = 1.2
1.0	13.0 x 23.0 x 31.0	-	120	120	5.0	-	9.2	-	HAL105KAGJ	-
1.5	18.0 x 28.0 x 31.0	-	120	180	6.2	-	7.1	-	HAL155KAGJ	-
2.0	21.0 x 31.0 x 31.0	-	120	240	7.5	-	4.9	-	HAL205KAGJ	-
Pitch = 37.5 ± 0.7 mm									dt = 1.0	dt = 1.2
3.3	20.0 X 30.0 X 42.0	10.2	100	330	5.0	5.7	9.9	9.4	HAQ335KAGJ	HAQ335KAPJ
4.0	24.0 X 35.0 X 42.0	10.2	100	400	5.6	6.2	9.0	8.5	HAQ405KAGJ	HAQ405KAPJ
5.6	28.0 X 39.0 X 42.0	10.2	100	560	6.8	7.3	7.2	6.6	HAQ565KAGJ	HAQ565KAPJ
7.5	30.0 X 43.0 X 42.0	10.2	100	750	7.1	7.8	6.9	6.3	HAQ755KAGJ	HAQ755KAPJ

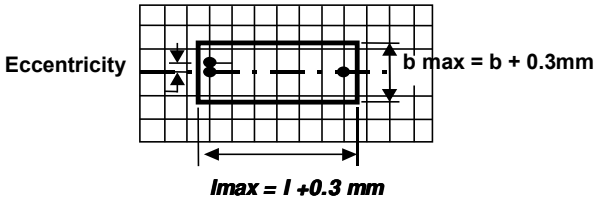
(1) Max. at 100KHz, +70°C

(2) Typical values at 100KHz

Metallized Polypropylene film capacitors (Switching Application) PCPW 226

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**

CHARACTERISTICS

- **Test Voltage**

  . Test Voltage (between terminations) : 1.6 x V_{Rdc}, 1min

  . Test Voltage (between leads and case) : 2KV- 50Hz(or 60Hz) for 10 seconds

- **Dissipation Factor**

Pitch	Dissipation factor (x 10^{-4})
	1 kHz
27.5mm	≤ 10
37.5mm	≤ 15

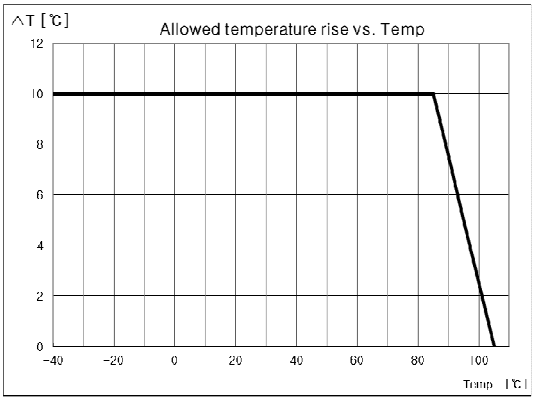
- **Insulation Resistance**

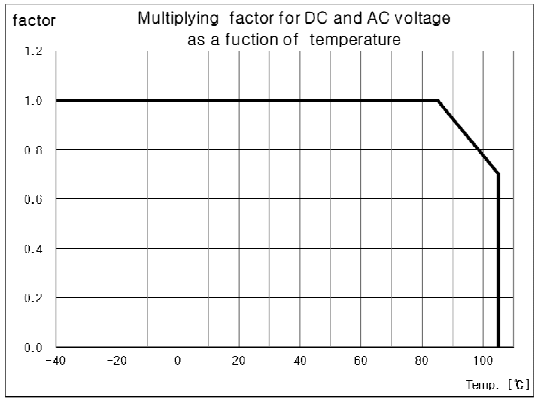
. The insulation resistance is measured for 1min.±5s, at 100V for V_{Rdc}<500V, at 500V for V_{Rdc}≥500V

Minimum RC	Minimum Insulation Resistance
Capacitance > 0.33uF	**Capacitance ≤ 0.33uF**
> 15,000s	> 45GΩ

(R = insulation resistance between the terminations[Ω] , C= capacitance[Farad])

- Self heating temperature ; Max 10℃





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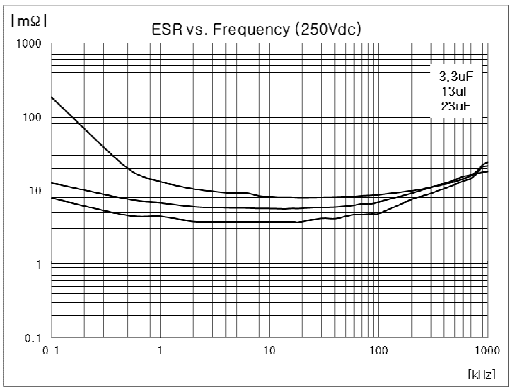
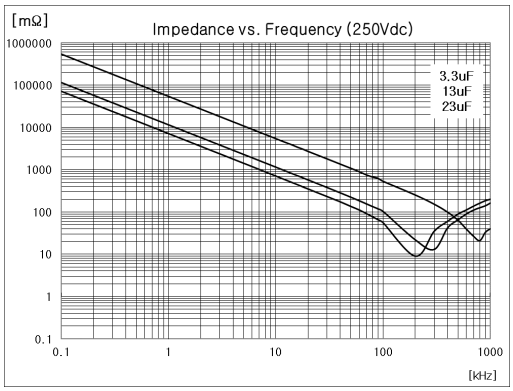
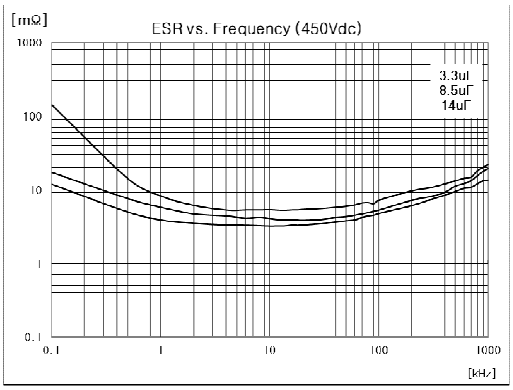
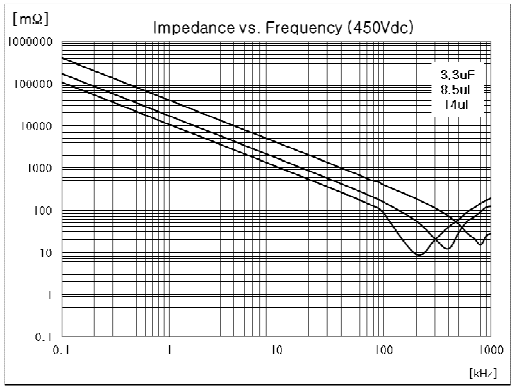
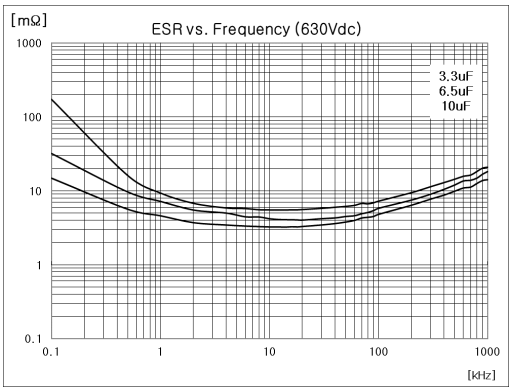
THE GRAPHS OF CHARACTERISTICS

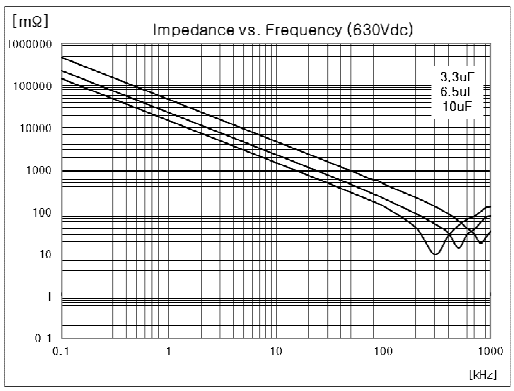


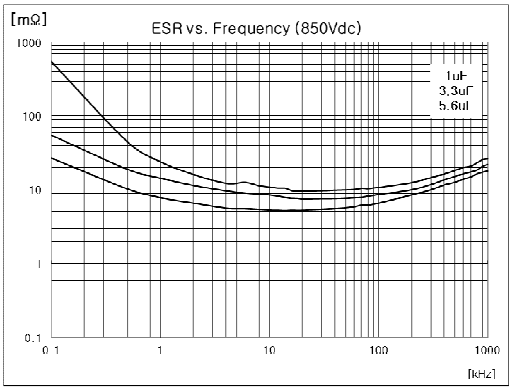


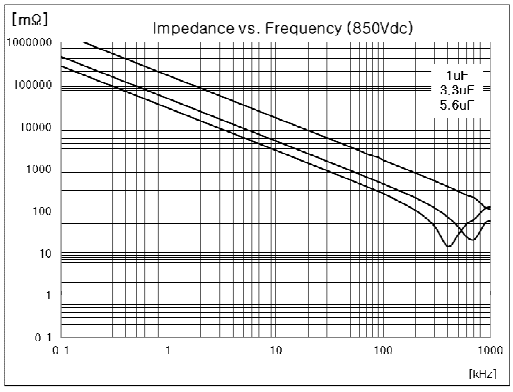












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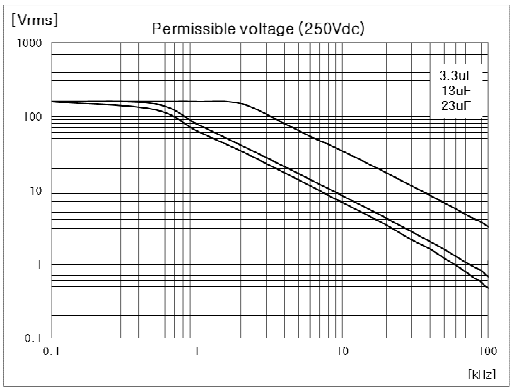
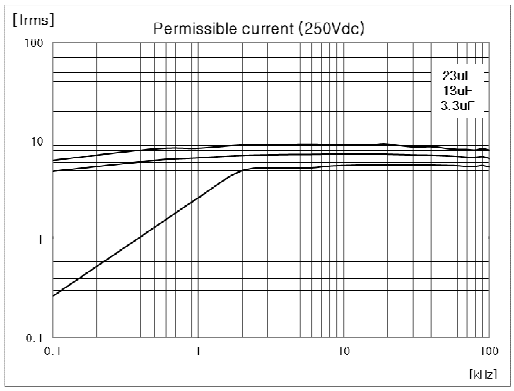
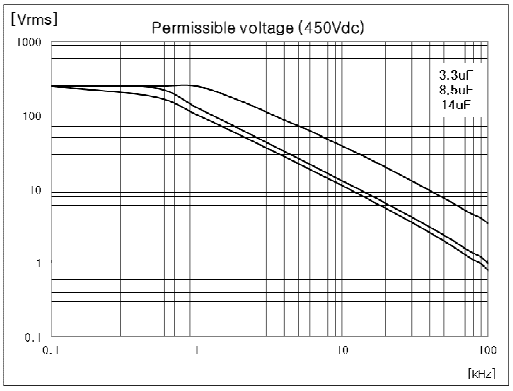
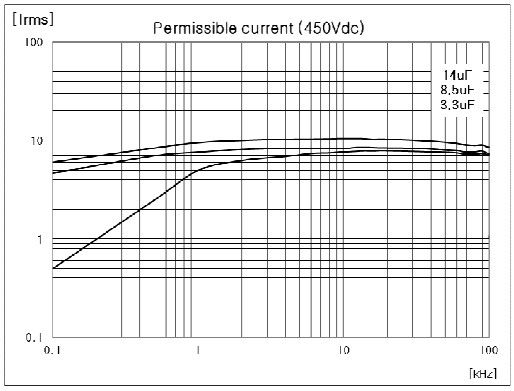
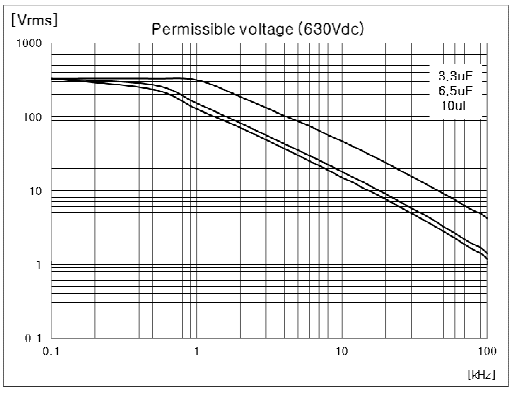
PERMISSIBLE VOLTAGE AND CURRENT AS A FUNCTION OF FREQUENCY

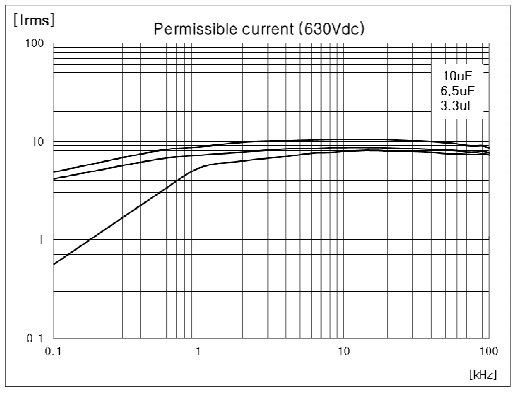


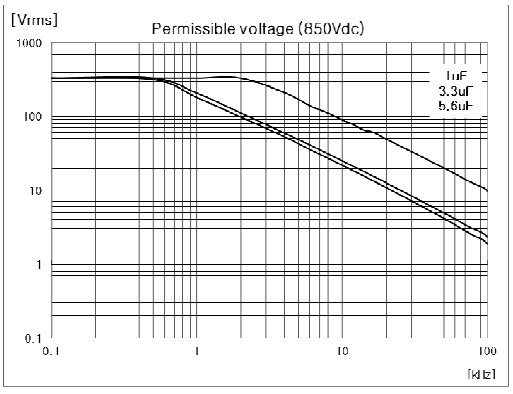


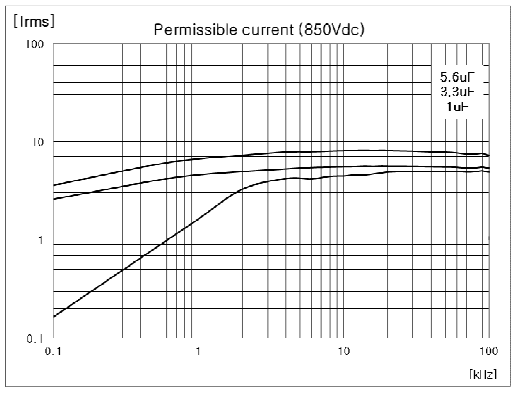












Metallized Polypropylene film capacitors (Switching Application) PCPW 226

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. 400 V)

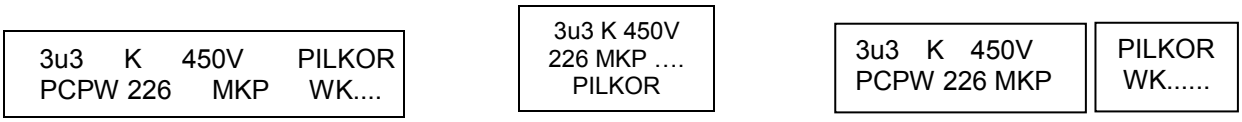
. Code for dielectric material (MKP)

. Manufacturer's type designation (PCPW 226)

. Manufacturer's name (PILKOR)

. White or black color

Example of marking



Marking on the top or side or Marking on the top or Marking on the top or side