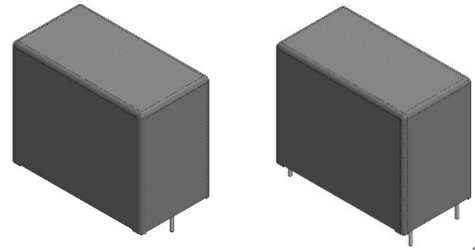


Metallized Polypropylene Film Capacitors For Harsh Environment AC Filtering (THB Version)

PCPW 255(H)

CONSTRUCTION

- Dielectric : Metallized Polypropylene film with segmented pattern
- Case : PBT (UL94 V-0)
- Filling : Epoxy resin (UL94 V-0)
- Terminals : Tinned copper wire (2-pin / 4-pin)



FEATURE

- . Harsh environment AC filtering
- . THB Version (85°C, 85% RH, 1000h at rated Vac)
- . UL810
- . For PCB mounting
- . Flame retardant(Case and Filling resin)

APPLICATION

- . Output AC filtering for power converters UPS, Solar inverters, Renewable energy
- . Inverter circuit in appliances

QUICK REFERENCE DATA

Capacitance range	1 μ F to 10 μ F
Capacitance tolerance	\pm 10%
Rated voltage (V _{Rac})	300, 350
Climatic category	40 / 105 / 56
Temperature range	-40 ~ +105°C
Reference IEC specification	IEC 61071
Safety approvals	UL810 (Construction only / File No. E348397)
Potting & Encapsulation material	Qualified in accordance with UL94V-0

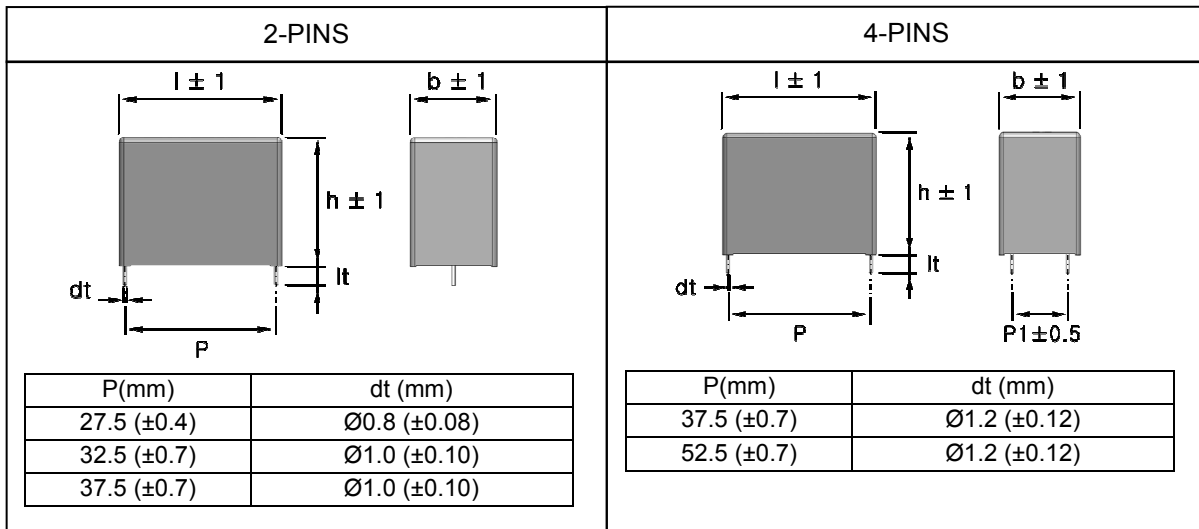
- Design and specifications are subjected to change without notice. Please refer to caution and warning at <http://www.pilkor.co.kr/sub/download/Introductions.pdf> before using these products.

TYPE SPECIFICATION

Metallized Polypropylene Film Capacitors For Harsh Environment AC Filtering (THB Version)

PCPW 255(H)

ORDERING INFORMATION



1	2	3	4	5	6	7	8	9	10	11	12	13	14
P	2	5	5	Q	3	5	1	5	6	K	H	S	2

Digits 1~4	
Code	Series name
P255	PCPW255

Digits 5	
Code	Pitch
L	27.5 mm
N	32.5 mm
Q	37.5 mm
T	52.5 mm

Digits 6~7	
Code	Voltage
30	300Vac
35	350Vac

Digits 8~10	
Code	Capacitance
105	1uF
106	10uF
107	100uF

Digits 11	
Code	Cap. tolerance
J	5%
K	10%

Digits 12	
Code	Revision
A	Standard(THB)

Digits 13	
Code	Lead length
S	5.0 \pm 1.0
F	4.0 \pm 0.5
8	3.8 \pm 0.5(0.3)*
7	3.7 \pm 0.5(0.3)*
5	3.5 \pm 0.5(0.3)*
4	3.4 \pm 0.5(0.3)*
2	3.2 \pm 0.5(0.3)*
T	3.0 \pm 0.5(0.3)*

Digits 14		
Code	Lead type	Packing
2	2-PIN	Arrange
4	4-PIN	Arrange

* dt(mm) = $\varnothing 0.8, \pm 0.3$

TYPE SPECIFICATION

Metallized Polypropylene Film Capacitors For Harsh Environment AC Filtering (THB Version)

PCPW 255(H)

ELETRICAL DATA AND ORDERING CODE**V_{Rac} = 300Vac**

Cap (μ F)	b x h x l (mm)	P1 \pm 0.5 (mm)	dv/dt (V/us)	Ipk (A)	Ordering Code
		4-Pin			
Pitch = 27.5 \pm 0.4 mm					
1	15.0 x 25.0 x 31.0	-	60	60	P255L30105KA**
2	18.0 x 28.0 x 31.0	-	60	120	P255L30205KA**
3	21.0 x 31.0 x 31.0	-	60	180	P255L30305KA**
Pitch = 37.5 \pm 0.7 mm					
5	20.0 X 35.0 X 42.0	10.2	35	175	P255Q30505KA**
7	24.0 X 39.0 X 42.0	10.2	35	245	P255Q30705KA**
10	30.0 X 45.0 X 42.0	10.2	35	350	P255Q30106KA**

V_{Rac} = 350Vac

Cap (μ F)	b x h x l (mm)	P1 \pm 0.5 (mm)	dv/dt (V/us)	Ipk (A)	Ordering Code
		4-Pin			
Pitch = 27.5 \pm 0.4 mm					
1	15.0 x 25.0 x 31.0	-	80	80	P255L35105KA**
2	18.0 x 28.0 x 31.0	-	80	160	P255L35205KA**
3	21.0 x 31.0 x 31.0	-	80	240	P255L35305KA**
Pitch = 37.5 \pm 0.7 mm					
5	20.0 X 35.0 X 42.0	10.2	50	250	P255Q35505KA**
7	24.0 X 39.0 X 42.0	10.2	50	350	P255Q35705KA**
10	30.0 X 45.0 X 42.0	10.2	50	500	P255Q35106KA**

TYPE SPECIFICATION

Metallized Polypropylene Film Capacitors For Harsh Environment AC Filtering (THB Version)

CHARACTERISTICS

• Test Voltage

- Cut off current 10mA / rise time 100V/sec.
- Test Voltage (between lead and lead) : $1.6 \times V_{Rdc}$, 1min.
- Test Voltage (between leads and case) : $2KV_{ac}$ (50 or 60Hz), 10sec.

• Capacitance

. Capacitance : Within specified tolerance range when sine wave AC is applied at 1kHz ± 200 Hz and $5V_{rms}$

• Dissipation Factor(DF)

. Dissipation factor: When sine wave AC is applied at 1kHz and $\leq 1 V_{rms}$

Pitch	Tangent of loss angle ($\times 10^{-4}$)
27.5mm	≤ 5
37.5mm	≤ 10

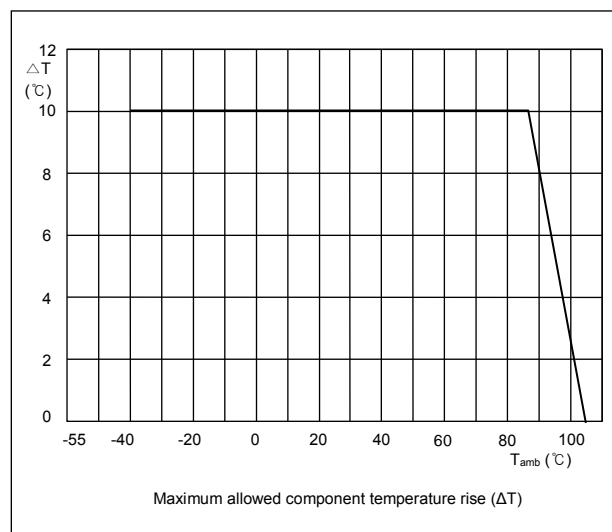
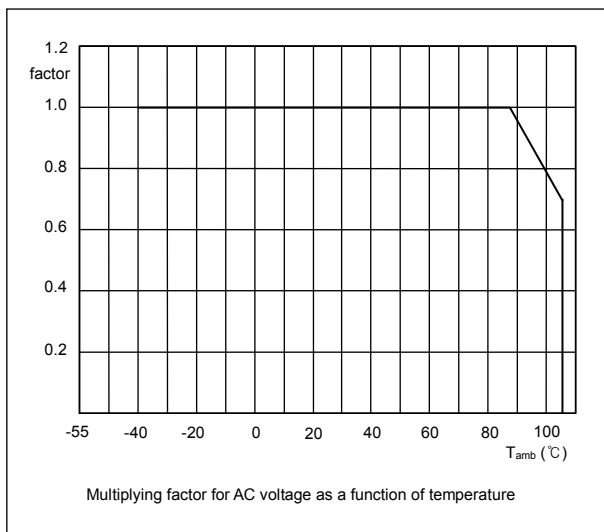
• Insulation Resistance

- . The insulation resistance is measured for 1min. ± 5 sec. at 500V
- . Minimum RC ($\Omega \cdot F$) > 10,000s(Pitch 37.5mm), 30,000s(Pitch 27.5mm)
(R = insulation resistance between the terminations[Ω], C= capacitance[Farad])

• Self heating temperature

. Maximum allowable rise is 10 °C

• AC Voltage derating & Peak current



TYPE SPECIFICATION

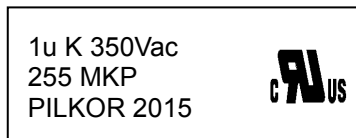
Metalized Polypropylene Film Capacitors For Harsh Environment AC Filtering (THB Version)

PRODUCT MARKING

Capacitors are marked with the following information :

- . Rated capacitance code in accordance with IEC 60062
- . Tolerance on rated capacitance : J : $\pm 5\%$ K : $\pm 10\%$
- . Rated (AC) Voltage (e.g. 350Vac)
- . Code for dielectric material (MKP)
- . Manufacturer's type designation (PCPW 255 or 255)
- . Manufacturer's name (PILKOR)
- . Year and week of manufacturing (2015)
- . Safety approvals
- . Marking color : White or Black

Example of marking



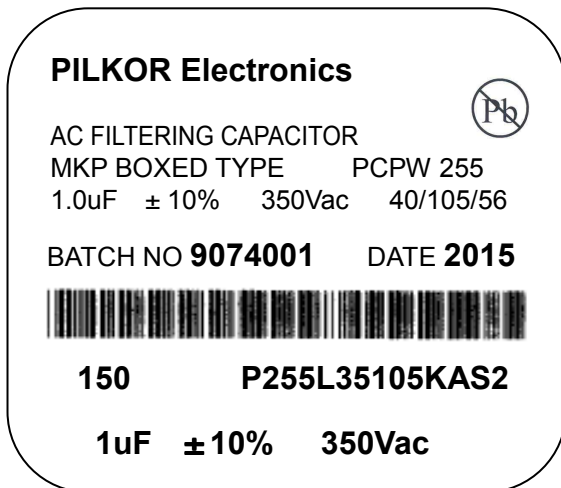
Marking on the top or side

Metallized Polypropylene Film Capacitors For Harsh Environment AC Filtering (THB Version)

PCPW 255(H)

PACKAGE MARKING

The package containing the capacitors is marked as shown.



LINE MARKING EXPLANATION

- 1 Manufacturer's name
- 2 Sub – family
3. Pb free marking(JEDEC-STD-97)
- 4 Type description
- 5 Capacitance value, tolerance,
Voltage and climatic category (IEC)
- 6 Batch no. & production period
year and week code
- 7 Quantity and Product code
- 8 Capacitance, tolerance and voltage

PACKING QUANTITY INFORMATION

SMALLEST PACKING QUANTITIES (SPQ)	Arrange Packing
	It = 5.0 ± 1.0mm
11.0 x 23.0 x 31.0	100
13.0 x 23.0 x 31.0	100
15.0 x 25.0 x 31.0	120
18.0 x 28.0 x 31.0	100
19.0 x 30.0 x 31.0	90
21.0 x 31.0 x 31.0	60
16.0 x 26.0 x 37.0	80
18.0 x 30.0 x 37.0	88
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
30.0 x 45.0 x 57.0	40
35.0 x 50.0 x 57.0	35

TYPE SPECIFICATION