

Metallized Polypropylene Film Capacitor(Radial Lead) AC Application

APB

订购基本规格

EXPLANATION OF ARTICLE CODE

APB -	106	K	40	4	52	D	5
①	②	③	④	⑤	⑥	⑦	⑧

① Capacitor Type

TYPE	APB
CODE	APB-

② Rated Capacitance (EIA Code)

The rated Capacitance value of the product is indicated with three digits. The first two digits indicate the two most significant digits of the capacitance value, and the third digit gives the number of following zeroes. This gives the capacitance value expressed in picofarads.

Examples:

105	=	1,000,000pF	=	1,000nF	=	1uF
106	=	10,000,000pF	=	10,000nF	=	10uF

③ Capacitance Tolerance

TOLERANCE	±5%	±10%	±20%
CODE	J	K	M

④ Rated Voltage

Code for DC Voltage: (expressed in one digit & one letter code)

VOLTAGE	125V	180V	200V	220V	230V	250V	280V	300V	350V	400V	450V	700V
CODE	12	18	20	22	23	25	28	30	35	40	45	70

⑤ Lead Configuration

LEAD TYPE	2 Lead		4 Lead
	Long	Cut	Cut
CODE	L	B	4

⑥ Lead Pitch(P)

Unit: mm

Lead Pitch	22.5	27.5	32.5	37.5	42.5	47.5	52.5	57.5
CODE	22	27	32	37	42	47	52	57

⑦ Lead Pitch(P1)

Unit: mm

Lead Pitch	5.1	10.2	12.7	16.0	20.3
CODE	A	B	G	C	D

⑧ Lead Length

TYPE	Long	Cut
LENGTH	15mm(min)	5.0
CODE	L	5

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AC Filtering capacitor consists of wound metallized polypropylene film, plastic casing sealed with epoxy. They are suitable for output AC filtering for power converters, UPS System, Solar Inverter and Motor Drives.



APPLICATIONS

Output AC filtering for power converters

UPS System

Solar Inverters

Motor Drives

FEATURES

Optimized AC Voltage performance

High Ripple Current.

High contact reliability

Flame retardant plastic case and epoxy resin.

SPECIFICATIONS

Operating Temperature: $-40^{\circ}\text{C} - +85^{\circ}\text{C}$

Capacitance range: $0.82\mu\text{F} - 75\mu\text{F}$

Capacitance Tolerance: $\pm 5\%(\text{J}), \pm 10\%(\text{K})$ at 1KHz

Rated Voltage: 250VAC - 400VAC

Dissipation Factor: 0.06% max 1 kHz, 25°C

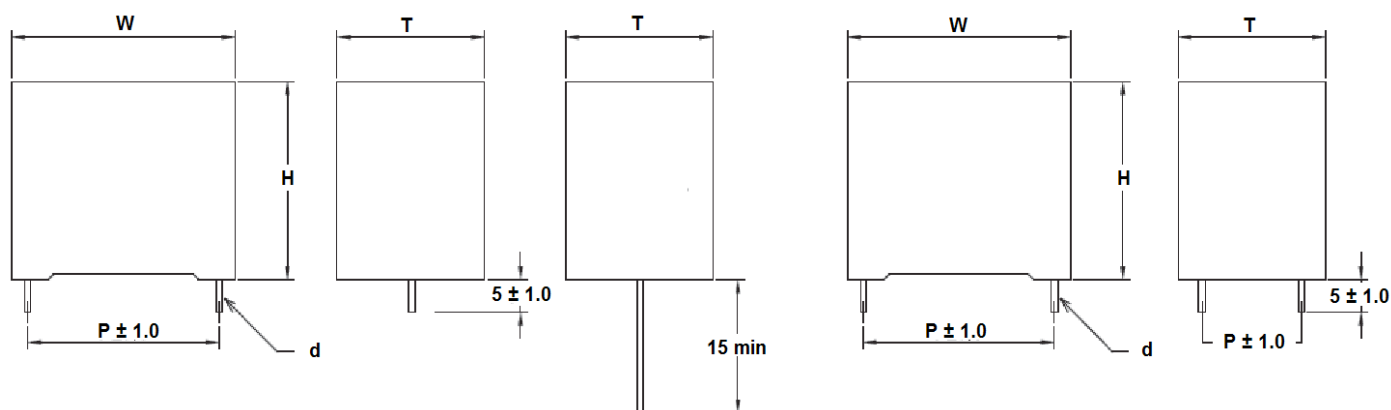
Dielectric Withstand: 1.5 x rated voltage for 10 seconds (terminal to terminal)

Insulation Resistance: $>3,000 \text{ M}\Omega \cdot \mu\text{F}/\text{C}$ after 1 minutes of electrification @ 100 Vdc & 25°C

Terminals to Case: 2.0 x rated voltage + 1000 V AC (min. 2000 V AC) at 50 Hz

Life Expectancy: 100,000 hours at U_r and 70°C

Lead Terminations: Tinned copper leads (RoHS compliant)



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■ DIMENSIONS for 2 leaded capacitor :

SIZE R.V. CAP(μF)	250 V A C								
	W (mm)	H (mm)	T (mm)	d (mm)	dv/dt (v/us)	I peak (A)	ESL nH	I _{rms} @10KHz +60°C (A)	ESR @10KHz mΩ
2.5	31.5	19.0	11.0	0.8	27	67.5	24	4.0	14.1
4.0	31.5	21.0	11.0	0.8	27	108	25	6.0	9.1
6.3	31.5	24.5	15.0	0.8	27	170	26	8.0	6.1
10	31.5	32.0	16.0	0.8	27	270	27	11.0	4.2
15	31.5	36.5	22.0	0.8	27	405	28	13.0	3.1
22	42.0	39.5	20.0	1.0	19	418	30	14.0	3.2
25	42.0	37.0	28.0	1.0	19	475	30	16.0	2.3
40	42.0	45.0	30.0	1.0	19	760	33	20.0	2.3

■ DIMENSIONS for 2 leaded capacitor :

SIZE R.V. CAP(μF)	300 V A C								
	W (mm)	H (mm)	T (mm)	d (mm)	dv/dt (v/us)	I peak (A)	ESL nH	I _{rms} @10KHz +60°C (A)	ESR @10KHz mΩ
2.0	31.5	19.0	11.0	0.8	31	62	24	4.0	15.6
3.3	31.5	23.0	13.5	0.8	31	102	25	6.0	9.70
5.0	31.5	24.5	14.0	0.8	31	155	26	7.0	6.70
8.0	31.5	33.0	18.0	0.8	31	248	27	9.0	4.60
12	31.5	36.5	22.0	0.8	31	372	28	11.0	3.50
16	42.0	39.5	20.0	1.0	21	336	30	13.0	3.9
20	42.0	37.0	28.0	1.0	21	420	30	14.0	3.1
30	42.0	45.0	30.0	1.0	21	630	33	18.0	2.2

■ DIMENSIONS for 2 leaded capacitor :

SIZE R.V. CAP(μF)	350 V A C								
	W (mm)	H (mm)	T (mm)	d (mm)	dv/dt (v/us)	I peak (A)	ESL nH	I _{rms} @10KHz +60°C (A)	ESR @10KHz mΩ
1.2	31.5	19.0	11.0	0.8	39	46	24	3.0	21.2
2.2	31.5	21.5	12.5	0.8	39	85	25	5.0	11.9
3.3	31.5	24.5	15.0	0.8	39	128	26	7.0	8.2
5.0	31.5	33.0	18.0	0.8	39	195	27	9.0	5.8
7.5	31.5	36.5	22.0	0.8	39	292	28	12.0	4.5
10	42.0	39.5	20.0	1.0	26	260	30	11.0	4.9
14	42.0	37.0	28.0	1.0	26	364	30	14.0	3.6
20	42.0	45.0	30.0	1.0	26	520	30	18.0	2.6

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■ DIMENSIONS for 2 leaded capacitor :

SIZE R.V. CAP(μF)	400 V A C								
	W (mm)	H (mm)	T (mm)	d (mm)	dv/dt (v/us)	I peak (A)	ESL nH	I _{rms} @10KHz +60°C (A)	ESR @10KHz mΩ
0.82	31.5	19.0	11.0	0.8	47	38	24	3.0	26.5
1.5	31.5	23.0	13.5	0.8	47	70	25	4.0	14.8
2.2	31.5	24.5	14.0	0.8	47	103	26	6.0	10.4
3.5	31.5	33.0	18.0	0.8	47	164	27	8.0	6.9
5.0	31.5	36.5	22.0	0.8	47	235	28	11.0	5.5
7.5	42.0	39.5	20.0	1.0	32	240	30	10.0	5.5
10	42.0	37.0	28.0	1.0	32	320	30	13.0	4.5
13	42.0	45.0	30.0	1.0	32	416	33	16.0	3.5

■ DIMENSIONS for 4 leaded capacitor :

SIZE R.V. CAP(μF)	250 V A C									
	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	dv/dt (v/us)	I peak (A)	ESL nH	I _{rms} @10KHz +60°C (A)	ESR @10KHz mΩ
22	42.0	39.5	20.0	10.2	1.2	19	418	30	15.0	3.2
25	42.0	37.0	28.0	10.2	1.2	19	475	30	17.0	2.9
40	42.0	45.0	30.0	20.3	1.2	19	760	33	21.0	2.3
45	42.0	48.0	33.0	20.3	1.2	19	855	33	23.0	1.9
55	57.5	45.0	30.0	20.3	1.2	12	660	35	21.0	2.7
75	57.5	50.0	35.0	20.3	1.2	12	900	38	38.0	2.1

■ DIMENSIONS for 4 leaded capacitor :

SIZE R.V. CAP(μF)	300 V A C									
	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	dv/dt (v/us)	I peak (A)	ESL nH	I _{rms} @10KHz +60°C (A)	ESR @10KHz mΩ
16	42.0	39.5	20.0	10.2	1.2	21	336	30	14.0	3.9
20	42.0	37.0	28.0	10.2	1.2	21	420	30	15.0	3.1
30	42.0	45.0	30.0	20.3	1.2	21	630	33	19.0	2.2
34	42.0	48.0	33.0	20.3	1.2	21	714	33	20.0	1.9
40	57.5	45.0	30.0	20.3	1.2	14	560	35	19.0	3.2
55	57.5	50.0	35.0	20.3	1.2	14	770	38	24.0	2.5

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■ DIMENSIONS for 4 leaded capacitor :

SIZE R.V. CAP(μF)	350 V A C									
	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	dv/dt (v/us)	I peak (A)	ESL nH	I _{rms} @10KHz +60°C (A)	ESR @10KHz mΩ
10	42.0	39.5	20.0	10.2	1.2	26	260	30	12.0	4.9
14	42.0	37.0	28.0	10.2	1.2	26	364	30	15.0	3.6
15	42.0	45.0	30.0	20.3	1.2	26	390	30	15.0	3.0
20	42.0	45.0	30.0	20.3	1.2	26	520	30	19.0	2.6
24	42.0	48.0	33.0	20.3	1.2	26	624	30	20.0	2.5
26	57.5	45.0	30.0	20.3	1.2	18	468	35	18.0	4.5
30	57.5	50.0	35.0	20.3	1.2	18	540	37	20.0	4.0
35	57.5	50.0	35.0	20.3	1.2	18	630	38	22.0	3.0
40	57.5	50.0	35.0	20.3	1.2	18	720	38	22.0	3.0

■ DIMENSIONS for 4 leaded capacitor :

SIZE R.V. CAP(μF)	400 V A C									
	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	dv/dt (v/us)	I peak (A)	ESL nH	I _{rms} @10KHz +60°C (A)	ESR @10KHz mΩ
7.5	42.0	39.5	20.0	10.2	1.2	32	240	30	11.0	5.5
10	42.0	37.0	28.0	10.2	1.2	32	320	30	14.0	4.5
13	42.0	45.0	30.0	20.3	1.2	32	416	33	17.0	3.5
16	42.5	48.0	33.0	20.3	1.2	32	512	33	18.0	3.5
18	57.5	45.0	30.0	20.3	1.2	21	378	35	16.0	4.7
20	57.5	50.0	35.0	20.3	1.2	21	420	37	17.0	4.5
25	57.5	50.0	35.0	20.3	1.2	21	525	38	20.0	3.5