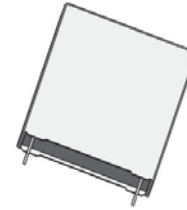


# Metallized Polypropylene Film Capacitor(Radial Lead) AC Application

## APB

交流滤波电容器

APB series is constructed with metallized polypropylene film, rectangular plastic casing sealed with epoxy resin. They are suitable for use in AC filter circuits, UPS systems, Solar Inverter, Industrial Inverter and available with 2 or 4 pins.



### APPLICATION

AC filter applications.

UPS systems.

Solar inverter and industrial power supply.

### FEATURES

High ripple current.

Self-healing properties.

High capacitance density.

Suitable for high frequency applications.

### SPECIFICATIONS

Reference Standard:	IEC61071
Climatic Category:	40/85/21 IEC60068-1
Operating Temperature Range:	-40°C to +105°C
Rated Voltage:	160Vac ~ 450Vac
Capacitance Range:	0.47uF ~50uF
Capacitance Tolerance:	±5% or ±10% at +25°C
Dissipation Factor (DF):	≤ 0.002 (0.2%) at 1kHz at +25°C
Test Voltage Between Terminals:	2.15 x rated voltage for 10s (terminal to terminal)
Test Voltage Terminal to Case:	3.0KVac 50 Hz for 10 sec at +25°C
Insulation Resistance:	IR x C ≥ 10,000 Seconds at 100VDC 1 minute at +25°C
Life Expectancy:	100,000 hours at Un @ Hot-Spot temperature T=+85°C
Leads:	Tinned copper wires, standard lead wire length 5 ±1mm
Packaging:	Packed in cardboard boxes with protection for the leads
RoHS Compliant:	Compliant with the restricted substance requirements of Directive 2002/95/EC

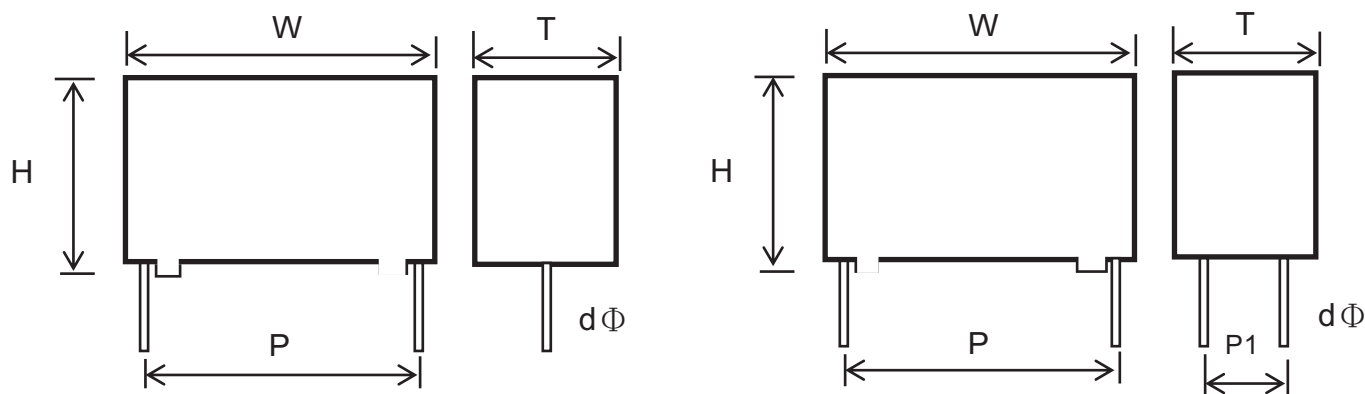
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## OUTLINE DRAWING

Unit: mm



## LEAD WIRES AND DIMENSIONS

Unit: mm

Number of wires	Lead spacing	Lead diameter
	$P \pm 0.5$	$d\Phi \pm 0.1$
	mm	mm
2 - pin	27.5	0.8
2 - pin	37.5	1.0
4 - pin	37.5	1.2
4 - pin	52.5	1.2

## PLASTIC CASE DIMENSIONS

Unit: mm

Case Code	W	H	T	P
	$\pm 1$	$\pm 1$	$\pm 1$	$\pm 0.5$
R10	32	20	11	27.5
R20	32	22	13	27.5
R50	32	28	14	27.5
R80	32	33	18	27.5
R94	32	37	22	27.5
T10	42.5	45	30	37.5
T33	42.5	40	20	37.5
T42	42.5	37	28	37.5
K10	57.5	45	30	52.5
K20	57.5	50	35	52.5

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### ■ PART NUMBER REFERENCE AND DIMENSIONS

Vac	Cap	Dimensions					Irms 10KHz 70°C A	Peak Current A	ESR <sub>10K</sub> Typical mΩ	ESL nH	Thermal Res °C/W	dv/dt V/us	Lead	Part Number
	Value	W	H	T	P	P1							Wire	
	uF	mm	mm	mm	mm	mm							mm	
160	1	32	20	11	27.5	\	5	32	30.3	24	19.8	32	0.8	APB-105K16B27L5AR10
160	2.2	32	20	11	27.5	\	7	70.4	15.3	24	20.0	32	0.8	APB-225K16B27L5AR10
160	3.3	32	22	13	27.5	\	7	105.6	11.3	24	27.1	32	0.8	APB-335K16B27L5AR20
160	5	32	28	14	27.5	\	7	160	8.8	26	34.8	32	0.8	APB-505K16B27L5AR50
160	10	32	33	18	27.5	\	7	320	6.8	26	45.0	32	0.8	APB-106K16B27L5AR80
160	10	42.5	37	28	37.5	10.2	12	220	7.2	30	14.5	22	1.2	APB-106K16437B5AT42
160	20	42.5	37	28	37.5	10.2	12	440	6.9	30	15.1	22	1.2	APB-206K16437B5AT42
160	30	42.5	45	30	37.5	20.3	12	660	7.4	30	14.1	22	1.2	APB-306K16437D5AT10
160	40	57.5	45	30	52.5	20.3	12	640	7.6	35	13.7	16	1.2	APB-406K16452D5AK10
160	50	57.5	50	35	52.5	20.3	12	800	7.5	35	13.9	16	1.2	APB-506K16452D5AK20
250	1	32	20	11	27.5	\	8	40	14.0	24	16.7	40	0.8	APB-105K25B27L5AR10
250	1.5	32	20	11	27.5	\	8	60	10.0	24	23.4	40	0.8	APB-155K25B27L5AR10
250	2	32	22	13	27.5	\	9	80	8.2	24	22.6	40	0.8	APB-205K25B27L5AR20
250	3.3	32	28	14	27.5	\	9	132	6.2	26	29.9	40	0.8	APB-335K25B27L5AR50
250	4	32	33	18	27.5	\	9	160	5.9	26	31.4	40	0.8	APB-405K25B27L5AR80
250	5	32	33	18	27.5	\	9	200	5.2	26	35.6	40	0.8	APB-505K25B27L5AR80
250	6.8	32	37	22	27.5	\	9	272	4.9	28	15.6	40	0.8	APB-685K25B27L5AR94
250	10	42.5	40	20	37.5	10.2	14	300	5.6	30	13.7	30	1.2	APB-106K25437B5AT33
250	15	42.5	37	28	37.5	10.2	14	450	5.2	30	14.7	30	1.2	APB-156K25437B5AT42
250	20	42.5	45	30	37.5	20.3	14	600	4.8	30	15.9	30	1.2	APB-206K25437D5AT10
250	25	57.5	45	30	52.5	20.3	14	625	5.7	35	13.4	25	1.2	APB-256K25452D5AK10
250	30	57.5	45	30	52.5	20.3	14	750	5.3	35	14.4	25	1.2	APB-306K25452D5AK10
250	35	57.5	50	35	52.5	20.3	14	875	5.5	35	13.9	25	1.2	APB-356K25452D5AK20
250	40	57.5	50	35	52.5	20.3	14	1000	5.2	35	14.7	25	1.2	APB-406K25452D5AK20
275	1	32	20	11	27.5	\	8	40	13.0	24	18.0	40	0.8	APB-105K27B27L5AR10
275	3.3	32	33	18	27.5	\	9	132	6.2	26	29.9	40	0.8	APB-335K27B27L5AR80
275	6.8	32	37	22	27.5	\	9	272	4.7	28	39.4	40	0.8	APB-685K27B27L5AR94
275	10	42.5	40	20	37.5	10.2	14	300	5.9	30	13.0	30	1.2	APB-106K27437B5AT33
275	15	42.5	45	30	37.5	20.3	14	450	5.1	30	15.0	30	1.2	APB-156K27437D5AT10
275	20	57.5	45	30	52.5	20.3	14	500	6.0	35	12.8	25	1.2	APB-206K27452D5AK10
275	30	57.5	50	35	52.5	20.3	14	750	5.3	35	14.4	25	1.2	APB-306K27452D5AK20
350	0.68	32	20	11	27.5	\	8	30.6	15.0	24	15.6	45	0.8	APB-684K35B27L5AR10
350	1	32	22	13	27.5	\	9	45	10.9	24	17	45	0.8	APB-105K35B27L5AR20
350	2	32	33	18	27.5	\	9	90	7.3	26	25.4	45	0.8	APB-205K35B27L5AR80
350	2.2	32	33	18	27.5	\	9	99	6.9	26	26.8	45	0.8	APB-225K35B27L5AR80
350	3.3	32	37	22	27.5	\	9	148.5	5.7	28	32.5	45	0.8	APB-335K35B27L5AR94
350	4.7	42.5	40	20	37.5	10.2	14	159.8	6.9	30	11.1	34	1.2	APB-475K35437B5AT33
350	5	42.5	40	20	37.5	10.2	14	170	6.8	30	11.3	34	1.2	APB-505K35437B5AT33
350	6.8	42.5	37	28	37.5	10.2	14	231.2	6.2	30	12.3	34	1.2	APB-685K35437B5AT42
350	10	42.5	45	30	37.5	20.3	14	340	5.3	30	14.4	34	1.2	APB-106K35437D5AT10
350	12	57.5	45	30	52.5	20.3	14	336	6.8	35	11.3	28	1.2	APB-126K35452D5AK10
350	20	57.5	50	35	52.5	20.3	14	560	5.9	35	13.0	28	1.2	APB-206K35452D5AK20
400	0.47	32	20	11	27.5	\	7	23.5	18.6	24	16.5	50	0.8	APB-474K40B27L5AR10
400	1	32	28	14	27.5	\	9	50	10.3	26	18	50	0.8	APB-105K40B27L5AR50
400	1.5	32	33	18	27.5	\	9	75	8.1	26	22.9	50	0.8	APB-155K40B27L5AR80
400	2.2	32	33	18	27.5	\	9	110	6.4	26	28.9	50	0.8	APB-225K40B27L5AR80
400	3	32	37	22	27.5	\	9	150	5.7	28	32.5	50	0.8	APB-305K40B27L5AR94
400	5	42.5	37	28	37.5	10.2	14	200	6.2	30	12.3	40	1.2	APB-505K40437B5AT42
400	10	57.5	45	30	52.5	20.3	14	350	6.9	35	11.1	35	1.2	APB-106K40452D5AK10
400	15	57.5	50	35	52.5	20.3	14	525	6.1	35	12.5	35	1.2	APB-156K40452D5AK20

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	Value	W	H	T	P	P1							Wire	
	uF	mm	mm	mm	mm	mm							mm	
450	0.22	32	20	11	27.5	\	5	12.1	30.9	24	19.4	55	0.8	APB-224K45B27L5AR10
450	0.47	32	22	13	27.5	\	8	25.85	15.7	24	14.9	55	0.8	APB-474K45B27L5AR20
450	1	32	33	18	27.5	\	8	55	9.2	26	25.5	55	0.8	APB-105K45B27L5AR80
450	1.5	32	37	22	27.5	\	8	82.5	7.3	28	32.1	55	0.8	APB-155K45B27L5AR94
450	3.3	42.5	37	28	37.5	10.2	14	148.5	7.4	30	10.3	45	1.2	APB-335K45437B5AT42
450	4.7	42.5	45	30	37.5	20.3	14	211.5	6.2	30	12.3	45	1.2	APB-475K45437D5AT10
450	6.8	57.5	45	30	52.5	20.3	14	258.4	7.5	35	10.2	38	1.2	APB-685K45452D5AK10
450	10	57.5	50	35	52.5	20.3	14	380	6.6	35	11.6	38	1.2	APB-106K45452D5AK20

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