

HCBB61S





Metallized polypropylene film AC motor capacitor
(S3 safety protection, plastic case)



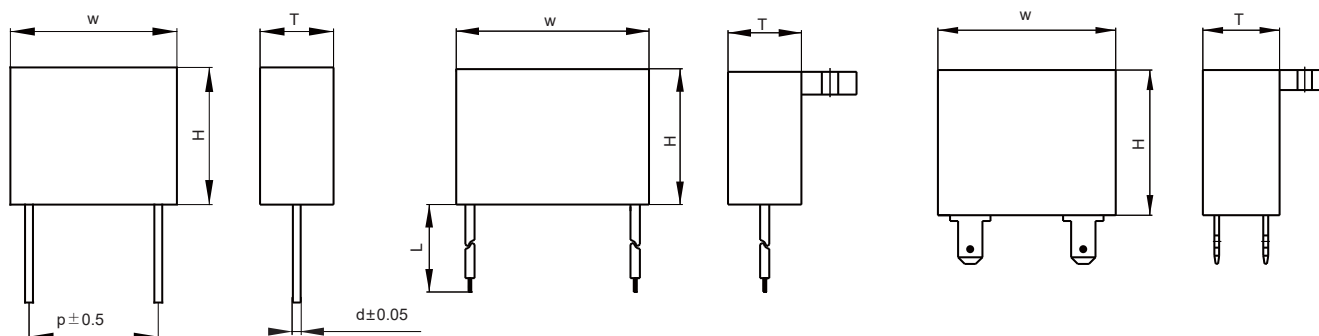
Features

- Widely applied to starting and running of AC single-phase motors at 50/60HZ frequency power
- Encapsulated in flame-resistant plastic case, sealed with epoxy resin.
- Self-healing property.
- Stable performance and high reliability.
- Adopt isolation film design, meet with S3 safety protection

Safety Approvals

	CQC	GB/T 3667.1	0.5μF-45μF,±5%,370Va.c.-500Va.c. 40/70/21,40/85/21,B/C,S3,SH,50/60Hz File No.: CQC11006064628
	TUV	EN 60252-1	0.5μF-45μF,±5%,220Va.c.-500Va.c. 40/70/21, 40/85/21,B,S3,SH,50/60Hz File No.: R 50258753
	CE	2014/35/EU	0.5μF-45μF,±5%,220Va.c.-500Va.c. 40/70/21,40/85/21,B,S3,SH,50/60Hz File No.: AN 50508688 0001
	UL/CUL	UL810 CSA C22.2 NO.190	0.5μF-30μF,±5%,max 500Va.c. max 85℃,50/60Hz,"Protected",10000AFC File No.: E481493,CCN:CYWT2/8

Outline Drawing



a) Tinned wires

b) Lead wires

c) Tabs

Specifications

Reference standard		GB/T 3667.1 (IEC 60252-1)
Rated voltage		250Va.c. ~ 500Va.c.(50Hz/60Hz)
Class of operation		Class B(10000h), Class C(3000h)
Capacitance range		0.5 μ F ~ 45 μ F
Climatic category		40/70/21 or 40/85/21
Class of safety protection		S3
Operation temperature range		-40°C~70°C or -40°C~85°C
Capacitance tolerance		$\pm 5\%$ (J)
Voltage proof	Between terminals	2U _{NAC} (2s)
	Between terminals and case	2000Va.c.(60s)
Insulation resistance(IR×C _N)		$\geq 3000s(20^{\circ}C, 100Vd.c., 60s)$
Dissipation factor		$\leq 0.0020(100Hz, 20^{\circ}C)$
Max permissible voltage		1.1U _N
Max permissible current		1.3I _N

Ordering Information

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																																
<table border="1"><tr><td>H</td><td>C</td><td>B</td><td>B</td><td>6</td><td>1</td></tr></table>						H	C	B	B	6	1	<table border="1"><tr><td>S</td></tr></table>	S	<table border="1"><tr><td>/</td></tr></table>	/	<table border="1"><tr><td></td><td></td></tr></table>				<table border="1"><tr><td></td><td></td><td></td></tr></table>						<table border="1"><tr><td></td></tr></table>		<table border="1"><tr><td></td></tr></table>		<table border="1"><tr><td></td></tr></table>		<table border="1"><tr><td></td><td></td><td></td></tr></table>						<table border="1"><tr><td>(</td><td>x</td><td>x</td><td>x</td><td>)</td></tr></table>			(x	x	x)										
H	C	B	B	6	1																																																		
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Series code						Safety Class		AC rated voltage		Rated capacitance value			Capacitance tolerance		Pitch/Width of plastic case		Class of operation		Terminal code			Internal code																																	
						S3		<table border="1"><tr><td>S2=450V</td></tr><tr><td>H2=500V</td></tr></table>		S2=450V	H2=500V				J=±5%				B-10000h C-3000h		See table 1																																		
S2=450V																																																							
H2=500V																																																							
										For example: 224=22×10 ⁴ pF =0.22μF										To identify when the special requirements needed																																			
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Table 1 Terminals code

Digit 17		Digit 18		Digit 19	
Code	Terminal form	Code	Fixed style	Code	Length tolerance
1	One AMP250# per side	0	PCB (tin wires)	0	Standard tin wires = 5.0mm±0.5mm Standard lead wires= 140mm±10mm or tabs version
2	Two AMP250# per side	1	Earless (tabs or lead wires)	L	Customized length and tolerance
4	One AMP187# per side	2	Bottom middle ear (tabs or lead wires)		
5	Two AMP187# per side				
6	Lead wires				
7	Tinned wires				

Outline dimensions

450Va.c. (Class B) Tinned wires											
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	Ordering Information	C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	Ordering Information
0.5	32	20	11	27.5	HCBB61S/S2504JBB70*	2.0	36	27	17	32.5	HCBB61S/S2205JDB70*
1.0	32	22	13	27.5	HCBB61S/S2105JBB70*	2.2	36	29	17	32.5	HCBB61S/S2225JDB70*
1.2	32	24	14	27.5	HCBB61S/S2125JBB70*	2.5	36	30.5	19	32.5	HCBB61S/S2255JDB70*
1.5	32	26	16	27.5	HCBB61S/S2155JBB70*	2.8	36	30.5	19	32.5	HCBB61S/S2285JDB70*
1.6	32	26	16	27.5	HCBB61S/S2165JBB70*	3.0	36	30	20	32.5	HCBB61S/S2305JDB70*
1.8	32	27	17	27.5	HCBB61S/S2185JBB70*	3.5	36	33	21	32.5	HCBB61S/S2355JDB70*
2.0	32	28	18	27.5	HCBB61S/S2205JBB70*	4.0	36	34	22	32.5	HCBB61S/S2405JDB70*
2.2	32	29	19	27.5	HCBB61S/S2225JBB70*	4.5	36	36	24	32.5	HCBB61S/S2455JDB70*
2.5	32	30	20	27.5	HCBB61S/S2255JBB70*	5.0	36	37	25	32.5	HCBB61S/S2505JDB70*
2.8	32	31	21	27.5	HCBB61S/S2285JBB70*	5.5	36	38	26	32.5	HCBB61S/S2555JDB70*
3.0	32	32	22	27.5	HCBB61S/S2305JBB70*	6.0	36	39	27	32.5	HCBB61S/S2605JDB70*
3.5	32	34	24	27.5	HCBB61S/S2355JBB70*	6.3	36	40	28	32.5	HCBB61S/S2635JDB70*
4.0	32	35	25	27.5	HCBB61S/S2405JBB70*	6.5	36	40	28	32.5	HCBB61S/S2655JDB70*
1.0	36	23	13	32.5	HCBB61S/S2105JDB70*	7.0	36	42	28	32.5	HCBB61S/S2705JDB70*
1.2	36	23	13	32.5	HCBB61S/S2125JDB70*	7.5	36	42	30	32.5	HCBB61S/S2755JDB70*
1.5	36	25	15	32.5	HCBB61S/S2155JDB70*	8.0	36	44	30	32.5	HCBB61S/S2805JDB70*
1.6	36	25	15	32.5	HCBB61S/S2165JDB70*	8.5	36	44	32	32.5	HCBB61S/S2855JDB70*
1.8	36	26	16	32.5	HCBB61S/S2185JDB70*						

Notes: 1) "70*" = terminal length and tolerance of the tinned wires installation method. "0" = standard terminal length,
 "L" = customized length and the tolerance (See table 1), please contact us when ordering the products.

Outline dimensions

450Va.c. (Class B) Tabs or lead wires									
C _N (μF)	W (mm)	H (mm)	T (mm)	Ordering Information	C _N (μF)	W (mm)	H (mm)	T (mm)	Ordering Information
0.5	32	20	11	HCBB61S/S2504J1B***	6.0	47	36	23	HCBB61S/S2605J4B***
1.0	37	22	12	HCBB61S/S2105J2B***	6.5	47	38	26	HCBB61S/S2655J4B***
1.5	37	25	15	HCBB61S/S2155J2B***	7.0	47	38	26	HCBB61S/S2705J4B***
2.0	37	28	15	HCBB61S/S2205J2B***	7.5	47	38	26	HCBB61S/S2755J4B***
2.5	37	30	20	HCBB61S/S2255J2B***	8.0	47	40	26	HCBB61S/S2805J4B***
3.0	37	32	21	HCBB61S/S2305J2B***	8.5	47	45	25	HCBB61S/S2855J4B***
3.5	37	32	21	HCBB61S/S2355J2B***	9.0	47	45	25	HCBB61S/S2905J4B***
2.0	47	26	14	HCBB61S/S2205J4B***	10.0	47	45	25	HCBB61S/S2106J4B***
2.5	47	27	17	HCBB61S/S2255J4B***	11.0	57	45	25	HCBB61S/S2116J5B***
3.0	47	27	17	HCBB61S/S2305J4B***	12.0	57	45	27	HCBB61S/S2126J5B***
3.5	47	32	17	HCBB61S/S2355J4B***	15.0	67	45	30	HCBB61S/S2156J6B***
4.0	47	32	20	HCBB61S/S2405J4B***	18.0	67	45	30	HCBB61S/S2186J6B***
4.5	47	32	21	HCBB61S/S2455J4B***	20.0	67	54	34	HCBB61S/S2206J6B***
5.0	47	35	22	HCBB61S/S2505J4B***	25.0	67	54	34	HCBB61S/S2256J6B***
5.5	47	36	23	HCBB61S/S2555J4B***					
500Va.c. (Class B) Tabs or lead wires									
C _N (μF)	W (mm)	H (mm)	T (mm)	Ordering Information	C _N (μF)	W (mm)	H (mm)	T (mm)	Ordering Information
0.5	32	23	13	HCBB61S/H2504J1B***	4.0	47	36	23	HCBB61S/H2405J4B***
1.0	32	26	16	HCBB61S/H2105J1B***	4.5	47	36	23	HCBB61S/H2455J4B***
1.2	32	27	17	HCBB61S/H2125J1B***	5.0	47	38	26	HCBB61S/H2505J4B***
1.5	32	30	20	HCBB61S/H2155J1B***	5.5	47	38	26	HCBB61S/H2555J4B***
1.8	32	30	20	HCBB61S/H2185J1B***	6.0	47	45	25	HCBB61S/H2605J4B***
2.0	32	32	22	HCBB61S/H2205J1B***	6.5	47	45	25	HCBB61S/H2655J4B***
2.5	32	35	25	HCBB61S/H2255J1B***	7.0	47	45	25	HCBB61S/H2705J4B***
1.0	37	24	14	HCBB61S/H2105J2B***	7.5	47	45	30	HCBB61S/H2755J4B***
1.2	37	25	15	HCBB61S/H2125J2B***	8.0	47	45	30	HCBB61S/H2805J4B***
1.5	37	28	18	HCBB61S/H2155J2B***	8.5	47	45	30	HCBB61S/H2855J4B***
1.8	37	28	18	HCBB61S/H2185J2B***	9.0	57	45	27	HCBB61S/H2905J5B***
2.0	37	30	20	HCBB61S/H2205J2B***	10.0	67	45	30	HCBB61S/H2106J6B***

Notes:1) "****"= terminal code of tabs or lead wires. Various installations can be provided. Please choose the type according to table 1 and contact us for specific installation requirements.

Outline dimensions

500Va.c. (Class B) Tabs or lead wires									
C _N (μF)	W (mm)	H (mm)	T (mm)	Ordering Information	C _N (μF)	W (mm)	H (mm)	T (mm)	Ordering Information
2.5	37	32	21	HCBB61S/H2255J2B***	12.0	67	45	30	HCBB61S/H2126J6B***
2.0	47	27	17	HCBB61S/H2205J4B***	15.0	67	54	34	HCBB61S/H2156J6B***
2.5	47	30	20	HCBB61S/H2255J4B***	16.0	67	54	34	HCBB61S/H2166J6B***
3.0	47	30	20	HCBB61S/H2305J4B***	18.0	67	54	34	HCBB61S/H2186J6B***
3.5	47	35	22	HCBB61S/H2355J4B***					

Notes:1) "****"= terminal code of tabs or lead wires. Various installations can be provided. Please choose the type according to table 1 and contact us for specific installation requirements.