HCBB61S

Metallized Polypropylene Film AC Motor Capacitor
(S3 Safety Protection, Plastic Case)



Features

- Metallized polypropylene film
- Flame-resistant plastic housing, epoxy resin sealing
- Excellent self-healing performance
- Stable performance and high reliability
- Segmented film design, S3 safety protection

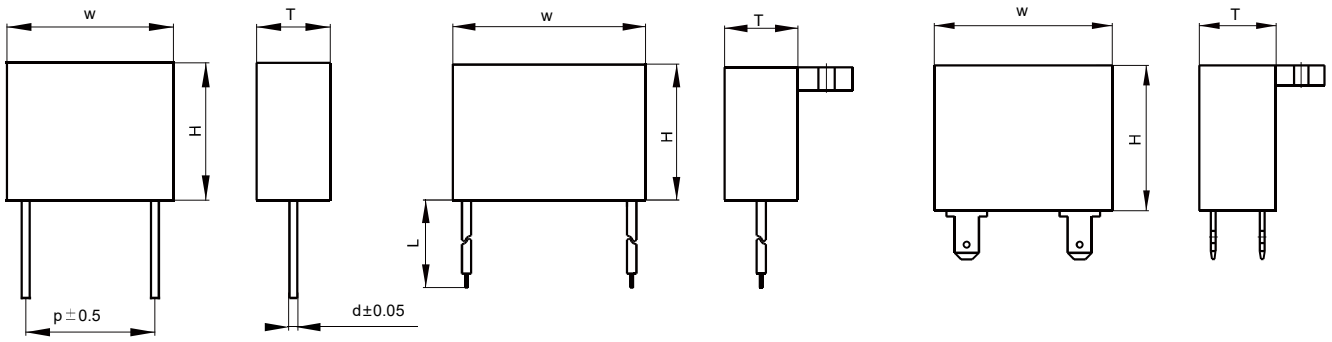
Typical Applications

- Widely applied to starting and running of AC single-phase motors at 50Hz/60Hz frequency power

Safety Approvals

cqc	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
TÜV	TÜV	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	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
c UL us	UL/CUL	UL810 CSA C22.2 N0.190	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 standards		GB/T 3667.1, IEC60252-1	
Rated voltage	U_N	250Va.c.~500Va.c.(50Hz/60Hz)	
Class of operation		Class B(10000h),Class C(3000h)	
Capacitance range	C_N	0.5μF~45μF	
Capacitance tolerance		±5%(J)	
Dissipation factor(DF)	tanδ	⩽0.0020(100Hz,20℃)	
Insulation resistance (20℃,100V,1min)	IR×C_N	⩾3000s	
Climatic category		40/70/21,40/85/21	
Class of safety protection		S3	
Operating temperature range	T_{OP}	-40℃~70℃/-40℃~85℃	
Voltage proof	U_{t-t}	Between terminals	2U_N(2s)
	U_{t-c}	Between terminals and case	2000Va.c.(60s)
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	25
H	C	B	B	6	1	S	/	S	2	2	0	5	J	2	B	6	2	0	0	(	X	X	X	)

Series code

Class of safety protection
S3

Rated voltage
E2=250V
S2=450V
H2=500V

Rated capacitance
For example:
205=20×10⁵pF
=2μF

Capacitance tolerance
J=±5%

Dimension code / Pitch code

Dimension code
(Width of plastic case with tabs and lead wires)
1=32mm 2=37mm 3=42mm
4=47mm 5=57mm 6=67mm

Pitch code
(for tinned wires)
B=27.5mm D=32.5mm F=37.5mm

Class of operation
B-10000h
C-3000h

Terminal code
See Table 1

Internal code
0=Standard

Special code
To identify when special requirements needed

Table 1: Terminal Code

Digit 17		Digit 18		Digit 19			
Code	Terminal form	Code	Fixed style	Code	Tin wires lead(mm) ±0.5mm	Code	lead wires(mm) ±10 mm
1	AMP250#(1+1)	0	PCB	0	5.0	0	140
2	AMP250#(2+2)	1	Earless	1	3.0	1	50
4	AMP187#(1+1)	2	Bottom middle ear	2	3.5	2	60
5	AMP187#(2+2)			3	4.0	3	80
6	Lead wires			4	4.5	4	90
7	Tinned wires			5	6.0	5	100
				6	11	6	120
				7	22	7	130
						8	150
						9	160
						A	170
						B	180
						C	190
						D	200
						E	210
						F	230
						G	250
						H	260
						J	300
						K	310
						M	350
						N	380
						P	400
						Q	450
						R	500

Notes: 1) When the terminal form is tinned wire, the 18th digit shall default to 0. When the terminal form is lead wire, AMP250#, or AMP187#, the 18th digit can be selected as either 1 or 2.
2) When the terminal form is AMP250# or AMP187# , the 19th digit shall default to 0.

Outline Dimensions

Unit: mm

450Va.c.(Class B) Tinned wires											
CN(μF)	W	H	T	P	Ordering Information	CN(μF)	W	H	T	P	Ordering Information
0.5	32	20	11	27.5	HCBB61S/S2504JBB70*0	2.0	36	27	17	32.5	HCBB61S/S2205JDB70*0
1.0	32	22	13	27.5	HCBB61S/S2105JBB70*0	2.2	36	29	17	32.5	HCBB61S/S2225JDB70*0
1.2	32	24	14	27.5	HCBB61S/S2125JBB70*0	2.5	36	30.5	19	32.5	HCBB61S/S2255JDB70*0
1.5	32	26	16	27.5	HCBB61S/S2155JBB70*0	2.8	36	30.5	19	32.5	HCBB61S/S2285JDB70*0
1.6	32	26	16	27.5	HCBB61S/S2165JBB70*0	3.0	36	30	20	32.5	HCBB61S/S2305JDB70*0
1.8	32	27	17	27.5	HCBB61S/S2185JBB70*0	3.5	36	33	21	32.5	HCBB61S/S2355JDB70*0
2.0	32	28	18	27.5	HCBB61S/S2205JBB70*0	4.0	36	34	22	32.5	HCBB61S/S2405JDB70*0
2.2	32	29	19	27.5	HCBB61S/S2225JBB70*0	4.5	36	36	24	32.5	HCBB61S/S2455JDB70*0
2.5	32	30	20	27.5	HCBB61S/S2255JBB70*0	5.0	36	37	25	32.5	HCBB61S/S2505JDB70*0
2.8	32	31	21	27.5	HCBB61S/S2285JBB70*0	5.5	36	38	26	32.5	HCBB61S/S2555JDB70*0
3.0	32	32	22	27.5	HCBB61S/S2305JBB70*0	6.0	36	39	27	32.5	HCBB61S/S2605JDB70*0
3.5	32	34	24	27.5	HCBB61S/S2355JBB70*0	6.3	36	40	28	32.5	HCBB61S/S2635JDB70*0
4.0	32	35	25	27.5	HCBB61S/S2405JBB70*0	6.5	36	40	28	32.5	HCBB61S/S2655JDB70*0
1.0	36	23	13	32.5	HCBB61S/S2105JDB70*0	7.0	36	42	28	32.5	HCBB61S/S2705JDB70*0
1.2	36	23	13	32.5	HCBB61S/S2125JDB70*0	7.5	36	42	30	32.5	HCBB61S/S2755JDB70*0
1.5	36	25	15	32.5	HCBB61S/S2155JDB70*0	8.0	36	44	30	32.5	HCBB61S/S2805JDB70*0
1.6	36	25	15	32.5	HCBB61S/S2165JDB70*0	8.5	36	44	32	32.5	HCBB61S/S2855JDB70*0
1.8	36	26	16	32.5	HCBB61S/S2185JDB70*0						

450Va.c.(Class B) Tabs or lead wires									
CN(μF)	W	H	T	Ordering Information	CN(μF)	W	H	T	Ordering Information
0.5	32	20	11	HCBB61S/S2504J1B***0	2.5	47	27	17	HCBB61S/S2255J4B***0
1.0	37	22	12	HCBB61S/S2105J2B***0	3.0	47	27	17	HCBB61S/S2305J4B***0
1.5	37	25	15	HCBB61S/S2155J2B***0	3.5	47	32	17	HCBB61S/S2355J4B***0
2.0	37	28	15	HCBB61S/S2205J2B***0	4.0	47	32	20	HCBB61S/S2405J4B***0
2.5	37	30	20	HCBB61S/S2255J2B***0	4.5	47	32	21	HCBB61S/S2455J4B***0
3.0	37	32	21	HCBB61S/S2305J2B***0	5.0	47	35	22	HCBB61S/S2505J4B***0
3.5	37	32	21	HCBB61S/S2355J2B***0	5.5	47	36	23	HCBB61S/S2555J4B***0
2.0	47	26	14	HCBB61S/S2205J4B***0	6.0	47	36	23	HCBB61S/S2605J4B***0

Notes: In the ordering information, “70*” or “***” represents the terminal code. Multiple mounting options are available. Please refer to Table 1 and contact us with your specific installation requirements.

Outline Dimensions

Unit: mm

450Va.c.(Class B) Tabs or lead wires									
C_N(μF)	W	H	T	Ordering Information	C_N(μF)	W	H	T	Ordering Information
6.5	47	38	26	HCBB61S/S2655J4B***0	11.0	57	45	25	HCBB61S/S2116J5B***0
7.0	47	38	26	HCBB61S/S2705J4B***0	12.0	57	45	27	HCBB61S/S2126J5B***0
7.5	47	38	26	HCBB61S/S2755J4B***0	15.0	67	45	30	HCBB61S/S2156J6B***0
8.0	47	40	26	HCBB61S/S2805J4B***0	18.0	67	45	30	HCBB61S/S2186J6B***0
8.5	47	45	25	HCBB61S/S2855J4B***0	20.0	67	54	34	HCBB61S/S2206J6B***0
9.0	47	45	25	HCBB61S/S2905J4B***0	25.0	67	54	34	HCBB61S/S2256J6B***0
10.0	47	45	25	HCBB61S/S2106J4B***0					

500Va.c.(Class B) Tabs or lead wires									
C_N(μF)	W	H	T	Ordering Information	C_N(μF)	W	H	T	Ordering Information
0.5	32	23	13	HCBB61S/H2504J1B***0	4.0	47	36	23	HCBB61S/H2405J4B***0
1.0	32	26	16	HCBB61S/H2105J1B***0	4.5	47	36	23	HCBB61S/H2455J4B***0
1.2	32	27	17	HCBB61S/H2125J1B***0	5.0	47	38	26	HCBB61S/H2505J4B***0
1.5	32	30	20	HCBB61S/H2155J1B***0	5.5	47	38	26	HCBB61S/H2555J4B***0
1.8	32	30	20	HCBB61S/H2185J1B***0	6.0	47	45	25	HCBB61S/H2605J4B***0
2.0	32	32	22	HCBB61S/H2205J1B***0	6.5	47	45	25	HCBB61S/H2655J4B***0
2.5	32	35	25	HCBB61S/H2255J1B***0	7.0	47	45	25	HCBB61S/H2705J4B***0
1.0	37	24	14	HCBB61S/H2105J2B***0	7.5	47	45	30	HCBB61S/H2755J4B***0
1.2	37	25	15	HCBB61S/H2125J2B***0	8.0	47	45	30	HCBB61S/H2805J4B***0
1.5	37	28	18	HCBB61S/H2155J2B***0	8.5	47	45	30	HCBB61S/H2855J4B***0
1.8	37	28	18	HCBB61S/H2185J2B***0	9.0	57	45	27	HCBB61S/H2905J5B***0
2.0	37	30	20	HCBB61S/H2205J2B***0	10.0	67	45	30	HCBB61S/H2106J6B***0

Notes: In the ordering information, “70*” or “***” represents the terminal code. Multiple mounting options are available. Please refer to Table 1 and contact us with your specific installation requirements.