HCBB61

Metallized Polypropylene Film AC Motor Capacitor
(Plastic Case)



Features

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

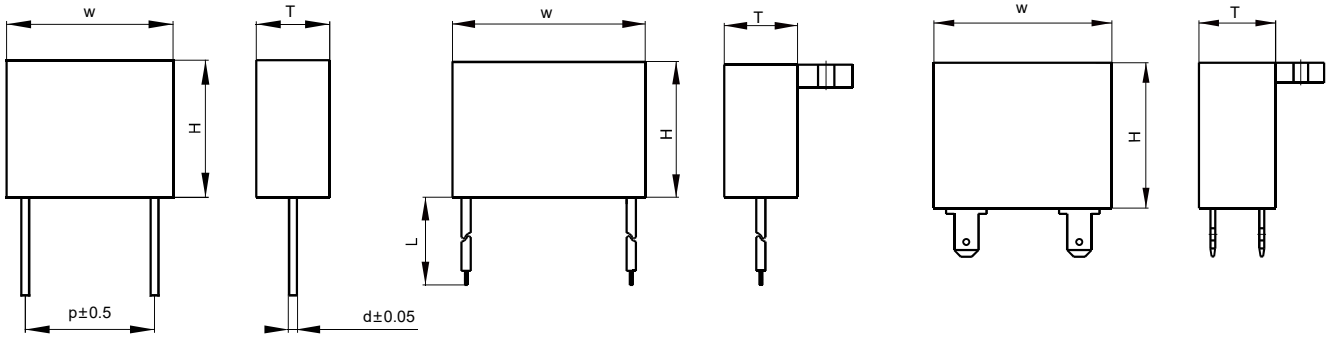
Typical Applications

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

Safety Approvals

cqc	CQC	GB/T 3667.1	0.1μF-60μF,±5%,370Va.c.-500Va.c. 40/70/21,40/85/21,B/C,S0,SH,50/60Hz File No.: CQC03002003946 0.5μF-70μF,±5%,220Va.c.-350Va.c. 40/70/21,40/85/21,B/C,S0,SH,50/60Hz File No.: CQC11006059171 0.5μF-10μF,±5%,370Va.c.-500Va.c. 40/105/21,B/C,S0,SH,50/60Hz File No.: CQC14006120849
VDE	VDE	EN 60252-1	0.5μF-45μF,±5%,250Va.c.-500Va.c. 25/70/21, 25/85/21, 40/70/21, 40/85/21, B/C,S0,SH,50/60Hz File No.: 40001530
TÜV	TÜV	EN 60252-1	0.5μF-45μF,±5%,220Va.c.-500Va.c. 40/70/21, 40/85/21,B/C,S0,SH,50/60Hz File No.: R 50387542
c UL us	UL/CUL	UL810 CSA C22.2 N0.190	0.5μF-45μF,±5%,250Va.c.-500Va.c. max 90°C,50/60Hz File No.: E222132,CCN:CZDS2/8

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		S0	
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
H	C	B	B	6	1	/	S	2	2	0	5	J	2	B	6	2	0	0	(	X	X	X	)

Series code

Rated voltage

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

Rated capacitance

For example:
205=20×10^5pF
=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 16		Digit 17		Digit 18			
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 17th digit shall default to 0. When the terminal form is lead wire,AMP250#, or AMP187#, the 17th digit can be selected as either 1 or 2.
2) When the terminal form is AMP250# or AMP187# , the 18th digit shall default to 0.

Outline Dimensions

Unit: mm

250Va.c.(Class B/Class C) Tinned wires											
C_N(μF)	W	H	T	P	Ordering Information	C_N(μF)	W	H	T	P	Ordering Information
0.5	32	16	7	27.5	HCBB61/E2504JBC70*0	2.5	36	23	13	32.5	HCBB61/E2255JDC70*0
1.0	32	18	9	27.5	HCBB61/E2105JBC70*0	3.0	36	27	14	32.5	HCBB61/E2305JDC70*0
1.5	32	20	11	27.5	HCBB61/E2155JBC70*0	3.5	36	27	14	32.5	HCBB61/E2355JDC70*0
2.0	32	20	11	27.5	HCBB61/E2205JBC70*0	4.0	36	27	14	32.5	HCBB61/E2405JDC70*0
2.5	32	22	13	27.5	HCBB61/E2255JBC70*0	4.5	36	30.5	19	32.5	HCBB61/E2455JDC70*0
3.0	32	25	15	27.5	HCBB61/E2305JBC70*0	5.0	36	30.5	19	32.5	HCBB61/E2505JDC70*0
3.5	32	25	15	27.5	HCBB61/E2355JBC70*0	5.5	36	30.5	19	32.5	HCBB61/E2555JDC70*0
4.0	32	28	17	27.5	HCBB61/E2405JBC70*0	6.0	36	30.5	19	32.5	HCBB61/E2605JDC70*0
4.5	32	28	17	27.5	HCBB61/E2455JBC70*0	6.5	36	33	18	32.5	HCBB61/E2655JDC70*0
5.0	32	28	17	27.5	HCBB61/E2505JBC70*0	7.0	36	33	18	32.5	HCBB61/E2705JDC70*0
1.0	36	20	10	32.5	HCBB61/E2105JDC70*0	7.5	36	36	20	32.5	HCBB61/E2755JDC70*0
1.5	36	20	10	32.5	HCBB61/E2155JDC70*0	8.0	36	36	20	32.5	HCBB61/E2805JDC70*0
2.0	36	23	13	32.5	HCBB61/E2205JDC70*0	9.0	36	36	20	32.5	HCBB61/E2905JDC70*0

250Va.c.(Class B/Class C) Tabs or lead wires									
C_N(μF)	W	H	T	Ordering Information	C_N(μF)	W	H	T	Ordering Information
1.0	37	20	10	HCBB61/E2105J2C***0	7.5	37	36	20	HCBB61/E2755J2C***0
1.5	37	20	10	HCBB61/E2155J2C***0	8.0	37	36	20	HCBB61/E2805J2C***0
2.0	37	22	12	HCBB61/E2205J2C***0	9.0	37	36	20	HCBB61/E2905J2C***0
2.5	37	22	12	HCBB61/E2255J2C***0	3.5	47	26	14	HCBB61/E2355J4C***0
3.0	37	28	15	HCBB61/E2305J2C***0	4.0	47	26	14	HCBB61/E2405J4C***0
3.5	37	28	15	HCBB61/E2355J2C***0	4.5	47	26	14	HCBB61/E2455J4C***0
4.0	37	28	15	HCBB61/E2405J2C***0	5.0	47	27	17	HCBB61/E2505J4C***0
4.5	37	28	18	HCBB61/E2455J2C***0	5.5	47	27	17	HCBB61/E2555J4C***0
5.0	37	28	18	HCBB61/E2505J2C***0	6.0	47	27	17	HCBB61/E2605J4C***0
5.5	37	28	18	HCBB61/E2555J2C***0	6.5	47	27	17	HCBB61/E2655J4C***0
6.0	37	30	20	HCBB61/E2605J2C***0	7.0	47	32	17	HCBB61/E2705J4C***0
6.5	37	30	20	HCBB61/E2655J2C***0	7.5	47	32	17	HCBB61/E2755J4C***0
7.0	37	30	20	HCBB61/E2705J2C***0	8.0	47	32	17	HCBB61/E2805J4C***0

Notes: “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

250Va.c.(Class B/Class C) Tabs or lead wires									
C_N(μF)	W	H	T	Ordering Information	C_N(μF)	W	H	T	Ordering Information
9.0	47	34	18	HCBB61/E2905J4C***0	17.5	47	40	26	HCBB61/E217EJ4C***0
10.0	47	32	21	HCBB61/E2106J4C***0	15.0	57	35	23	HCBB61/E2156J5C***0
11.0	47	35	22	HCBB61/E2116J4C***0	20.0	57	40	23	HCBB61/E2206J5C***0
12.0	47	35	22	HCBB61/E2126J4C***0	25.0	57	45	25	HCBB61/E2256J5C***0
12.5	47	36	23	HCBB61/E212EJ4C***0	30.0	57	45	25	HCBB61/E2306J5C***0
13.0	47	36	23	HCBB61/E2136J4C***0	35.0	67	45	30	HCBB61/E2356J6C***0
14.0	47	36	24	HCBB61/E2146J4C***0	45.0	67	54	34	HCBB61/E2456J6C***0
15.0	47	38	26	HCBB61/E2156J4C***0					

450Va.c.(Class B) Tinned wires											
C_N(μF)	W	H	T	P	Ordering Information	C_N(μF)	W	H	T	P	Ordering Information
1.0	32	22	13	27.5	HCBB61/S2105JBB70*0	2.0	36	27	14	32.5	HCBB61/S2205JDB70*0
1.5	32	25	15	27.5	HCBB61/S2155JBB70*0	2.5	36	28	16	32.5	HCBB61/S2255JDB70*0
2.0	32	27	16	27.5	HCBB61/S2205JBB70*0	3.0	36	30.5	19	32.5	HCBB61/S2305JDB70*0
2.5	32	28	18	27.5	HCBB61/S2255JBB70*0	3.5	36	30.5	19	32.5	HCBB61/S2355JDB70*0
3.0	32	30	20	27.5	HCBB61/S2305JBB70*0	4.0	36	34	22	32.5	HCBB61/S2405JDB70*0
3.5	32	31	21	27.5	HCBB61/S2355JBB70*0	4.5	36	34	22	32.5	HCBB61/S2455JDB70*0
4.0	32	34	22	27.5	HCBB61/S2405JBB70*0	5.0	36	36	24	32.5	HCBB61/S2505JDB70*0
1.0	36	22.5	12	32.5	HCBB61/S2105JDB70*0	5.5	36	38	22	32.5	HCBB61/S2555JDB70*0
1.2	36	23	13	32.5	HCBB61/S2125JDB70*0	6.0	36	38	24	32.5	HCBB61/S2605JDB70*0
1.5	36	24.5	14	32.5	HCBB61/S2155JDB70*0	6.5	36	38	26	32.5	HCBB61/S2655JDB70*0
1.8	36	25.5	14.5	32.5	HCBB61/S2185JDB70*0	7.0	36	39	27	32.5	HCBB61/S2705JDB70*0

Notes: “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									
CN(μF)	W	H	T	Ordering Information	CN(μF)	W	H	T	Ordering Information
1.0	37	22	12	HCBB61/S2105J2B***0	5.5	47	35	22	HCBB61/S2555J4B***0
1.2	37	22	12	HCBB61/S2125J2B***0	6.0	47	35	22	HCBB61/S2605J4B***0
1.5	37	24	14	HCBB61/S2155J2B***0	6.5	47	35	22	HCBB61/S2655J4B***0
1.8	37	28	15	HCBB61/S2185J2B***0	7.0	47	38	26	HCBB61/S2705J4B***0
2.0	37	28	15	HCBB61/S2205J2B***0	7.5	47	38	26	HCBB61/S2755J4B***0
2.5	37	28	18	HCBB61/S2255J2B***0	8.0	47	38	26	HCBB61/S2805J4B***0
3.0	37	30	18	HCBB61/S2305J2B***0	9.0	47	38	26	HCBB61/S2905J4B***0
3.5	37	30	20	HCBB61/S2355J2B***0	10.0	47	45	25	HCBB61/S2106J4B***0
4.0	37	32	20	HCBB61/S2405J2B***0	11.0	47	45	30	HCBB61/S2116J4B***0
2.5	47	25	15	HCBB61/S2255J4B***0	12.0	47	45	30	HCBB61/S2126J4B***0
3.0	47	27	17	HCBB61/S2305J4B***0	12.5	47	45	30	HCBB61/S212EJ4B***0
3.5	47	27	17	HCBB61/S2355J4B***0	15.0	57	45	27	HCBB61/S2156J5B***0
4.0	47	30	20	HCBB61/S2405J4B***0	18.0	67	45	30	HCBB61/S2186J6B***0
4.5	47	32	21	HCBB61/S2455J4B***0	20.0	67	45	30	HCBB61/S2206J6B***0
5.0	47	32	21	HCBB61/S2505J4B***0	25.0	67	54	34	HCBB61/S2256J6B***0

500Va.c.(Class C) 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	HCBB61/H2504JBC70*0	2.5	36	28	18	32.5	HCBB61/H2255JDC70*0
1.0	32	22	13	27.5	HCBB61/H2105JBC70*0	3.0	36	33	18	32.5	HCBB61/H2305JDC70*0
1.5	32	28	14	27.5	HCBB61/H2155JBC70*0	3.5	36	33	18	32.5	HCBB61/H2355JDC70*0
2.0	32	33	18	27.5	HCBB61/H2205JBC70*0	4.0	36	37	22	32.5	HCBB61/H2405JDC70*0
2.5	32	33	18	27.5	HCBB61/H2255JBC70*0	4.5	36	37	22	32.5	HCBB61/H2455JDC70*0
3.0	32	37	22	27.5	HCBB61/H2305JBC70*0	5.0	36	37	22	32.5	HCBB61/H2505JDC70*0
3.5	32	37	22	27.5	HCBB61/H2355JBC70*0	5.5	36	41	26	32.5	HCBB61/H2555JDC70*0
4.0	32	37	22	27.5	HCBB61/H2405JBC70*0	6.0	36	41	26	32.5	HCBB61/H2605JDC70*0
1.0	36	22	11	32.5	HCBB61/H2105JDC70*0	6.5	36	41	26	32.5	HCBB61/H2655JDC70*0
1.5	36	27	14	32.5	HCBB61/H2155JDC70*0	7.0	36	45	30	32.5	HCBB61/H2705JDC70*0
2.0	36	29	14	32.5	HCBB61/H2205JDC70*0	7.5	36	45	30	32.5	HCBB61/H2755JDC70*0

Notes: "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

500Va.c.(Class C) Tinned wires											
C_N(μF)	W	H	T	P	Ordering Information	C_N(μF)	W	H	T	P	Ordering Information
8.0	36	45	30	32.5	HCBB61/H2805JDC70*0	5.5	41	37	22	37.5	HCBB61/H2555JFC70*0
2.0	42	28	14	37.5	HCBB61/H2205JFC70*0	6.0	41	37	22	37.5	HCBB61/H2605JFC70*0
2.5	41	30	16	37.5	HCBB61/H2255JFC70*0	6.5	41	41	26	37.5	HCBB61/H2655JFC70*0
3.0	41	32	17	37.5	HCBB61/H2305JFC70*0	7.0	41	41	26	37.5	HCBB61/H2705JFC70*0
3.5	41	32	17	37.5	HCBB61/H2355JFC70*0	7.5	41	41	26	37.5	HCBB61/H2755JFC70*0
4.0	41	33.5	18.5	37.5	HCBB61/H2405JFC70*0	8.0	42	45	30	37.5	HCBB61/H2805JFC70*0
4.5	41	37	22	37.5	HCBB61/H2455JFC70*0	8.5	42	45	30	37.5	HCBB61/H2855JFC70*0
5.0	41	37	22	37.5	HCBB61/H2505JFC70*0	9.0	42	45	30	37.5	HCBB61/H2905JFC70*0

500Va.c.(Class C) Tabs or lead wires									
C_N(μF)	W	H	T	Ordering Information	C_N(μF)	W	H	T	Ordering Information
0.5	32	20	11	HCBB61/H2504J1C***0	4.0	47	35	22	HCBB61/H2405J4C***0
1.0	32	22	13	HCBB61/H2105J1C***0	4.5	47	35	22	HCBB61/H2455J4C***0
1.5	32	28	14	HCBB61/H2155J1C***0	5.0	47	36	23	HCBB61/H2505J4C***0
1.8	32	33	18	HCBB61/H2185J1C***0	5.5	47	36	23	HCBB61/H2555J4C***0
2.0	32	33	18	HCBB61/H2205J1C***0	6.0	47	38	26	HCBB61/H2605J4C***0
2.5	32	33	18	HCBB61/H2255J1C***0	6.5	47	38	26	HCBB61/H2655J4C***0
3.0	32	37	22	HCBB61/H2305J1C***0	7.0	47	40	26	HCBB61/H2705J4C***0
3.5	32	37	22	HCBB61/H2355J1C***0	7.5	47	40	26	HCBB61/H2755J4C***0
4.0	32	37	22	HCBB61/H2405J1C***0	8.0	47	45	25	HCBB61/H2805J4C***0
1.0	37	23	13	HCBB61/H2105J2C***0	8.5	47	45	25	HCBB61/H2855J4C***0
1.5	37	28	15	HCBB61/H2155J2C***0	9.0	47	45	25	HCBB61/H2905J4C***0
1.8	37	28	15	HCBB61/H2185J2C***0	10.0	47	45	30	HCBB61/H2106J4C***0
2.0	37	28	18	HCBB61/H2205J2C***0	12.0	57	45	27	HCBB61/H2126J5C***0
2.5	37	30	20	HCBB61/H2255J2C***0	15.0	67	45	30	HCBB61/H2156J6C***0
2.0	47	26	14	HCBB61/H2205J4C***0	16.0	67	45	30	HCBB61/H2166J6C***0
2.5	47	27	17	HCBB61/H2255J4C***0	18.0	67	54	34	HCBB61/H2186J6C***0
3.0	47	30	20	HCBB61/H2305J4C***0	20.0	67	54	34	HCBB61/H2206J6C***0
3.5	47	32	21	HCBB61/H2355J4C***0					

Notes: "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

500Va.c.(Class B) Tinned wires											
C_N(μF)	W	H	T	P	Ordering Information	C_N(μF)	W	H	T	P	Ordering Information
0.5	32	20	11	27.5	HCBB61/H2504JBB70*0	7.0	36	45	30	32.5	HCBB61/H2705JDB70*0
1.0	32	25	14	27.5	HCBB61/H2105JBB70*0	2.0	42	28	14	37.5	HCBB61/H2205JFB70*0
1.5	32	28	17	27.5	HCBB61/H2155JBB70*0	2.5	41	30	16	37.5	HCBB61/H2255JFB70*0
2.0	32	33	18	27.5	HCBB61/H2205JBB70*0	3.0	41	32	17	37.5	HCBB61/H2305JFB70*0
1.0	36	22	13	32.5	HCBB61/H2105JDB70*0	3.5	41	33	18	37.5	HCBB61/H2355JFB70*0
1.5	36	28	15	32.5	HCBB61/H2155JDB70*0	4.0	41	34	20	37.5	HCBB61/H2405JFB70*0
2.0	36	29	17	32.5	HCBB61/H2205JDB70*0	4.5	41	37	22	37.5	HCBB61/H2455JFB70*0
2.5	36	30	18	32.5	HCBB61/H2255JDB70*0	5.0	41	37	22	37.5	HCBB61/H2505JFB70*0
3.0	36	34	22	32.5	HCBB61/H2305JDB70*0	5.5	41	37	26	37.5	HCBB61/H2555JFB70*0
3.5	36	34	22	32.5	HCBB61/H2355JDB70*0	6.0	41	37	26	37.5	HCBB61/H2605JFB70*0
4.0	36	37	22	32.5	HCBB61/H2405JDB70*0	6.5	41	41	26	37.5	HCBB61/H2655JFB70*0
4.5	36	41	26	32.5	HCBB61/H2455JDB70*0	7.0	41	43	28	37.5	HCBB61/H2705JFB70*0
5.0	36	41	26	32.5	HCBB61/H2505JDB70*0	7.5	41	43	28	37.5	HCBB61/H2755JFB70*0
5.5	36	41	26	32.5	HCBB61/H2555JDB70*0	8.0	42	45	30	37.5	HCBB61/H2805JFB70*0
6.0	36	45	30	32.5	HCBB61/H2605JDB70*0	8.5	42	45	30	37.5	HCBB61/H2855JFB70*0
6.5	36	45	30	32.5	HCBB61/H2655JDB70*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	20	11	HCBB61/H2504J1B***0	2.0	47	28	15	HCBB61/H2205J4B***0
1.0	32	28	14	HCBB61/H2105J1B***0	2.5	47	27	17	HCBB61/H2255J4B***0
1.5	32	33	18	HCBB61/H2155J1B***0	3.0	47	32	17	HCBB61/H2305J4B***0
1.8	32	33	18	HCBB61/H2185J1B***0	3.5	47	34	18	HCBB61/H2355J4B***0
2.0	32	33	18	HCBB61/H2205J1B***0	4.0	47	34	20	HCBB61/H2405J4B***0
1.0	37	24	13.5	HCBB61/H2105J2B***0	4.5	47	35	22	HCBB61/H2455J4B***0
1.5	37	28	15	HCBB61/H2155J2B***0	5.0	47	36	23	HCBB61/H2505J4B***0
1.8	37	28	18	HCBB61/H2185J2B***0	5.5	47	38	26	HCBB61/H2555J4B***0
2.0	37	30	18	HCBB61/H2205J2B***0	6.0	47	38	26	HCBB61/H2605J4B***0
2.5	37	32	21	HCBB61/H2255J2B***0	6.5	47	40	26	HCBB61/H2655J4B***0

Notes: "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

500Va.c.(Class B) Tabs or lead wires									
C_N(μF)	W	H	T	Ordering Information	C_N(μF)	W	H	T	Ordering Information
7.0	47	45	27	HCBB61/H2705J4B***0	8.5	47	45	30	HCBB61/H2855J4B***0
7.5	47	45	27	HCBB61/H2755J4B***0	9.0	47	45	30	HCBB61/H2905J4B***0
8.0	47	45	27	HCBB61/H2805J4B***0	10.0	57	45	27	HCBB61/H2106J5B***0

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