

HCBB61

Metallized polypropylene film AC motor capacitor (plastic case)



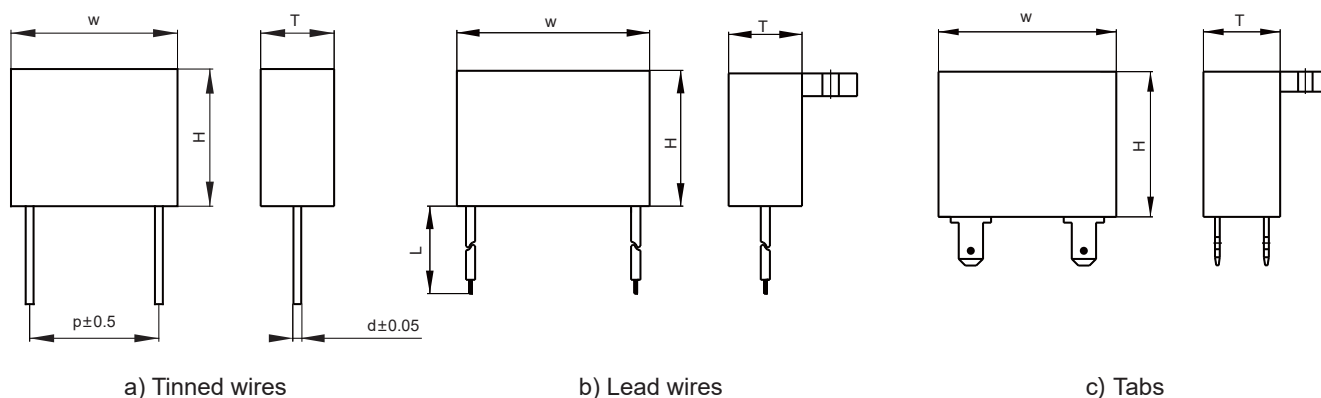
Features

- 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

Safety Approvals

	CQC	GB/T 3667.1	<p>0.1μF-60μF, \pm5%, 370Va.c.-500Va.c. 40/70/21, 40/85/21, B/C, S0, SH, 50/60Hz 证书号: CQC03002003946</p> <p>0.5μF-70μF, \pm5%, 220Va.c.-350Va.c. 40/70/21, 40/85/21, B/C, S0, SH, 50/60Hz File No.: CQC11006059171</p> <p>0.5μF-10μF, \pm5%, 370Va.c.-500Va.c. 40/105/21, B/C, S0, SH, 50/60Hz File No.: CQC14006120849</p>
	VDE	EN 60252-1	<p>0.5μF-45μF, \pm5%, 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</p>
	TUV	EN 60252-1	<p>0.5μF-45μF, \pm5%, 220Va.c.-500Va.c. 40/70/21, 40/85/21, B/C, S0, SH, 50/60Hz File No.: R 50387542</p>
	UL/CUL	UL810 CSA C22.2 NO.190	<p>0.5μF-45μF, \pm5%, 250Va.c.-500Va.c. max 90°C, 50/60Hz File No.: E222132, CCN:CZDS2/8</p>

Outline drawing



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		0.5μF ~ 45μF
Climatic category		40/70/21 or 40/85/21
Class of safety protection		S0
Operation temperature range		-40°C~70°C or -40°C~85°C
Capacitance tolerance		±5%(J)
Voltage proof	Between terminals	2U _{NAC} (2s)
	Between terminals and case	2000Va.c. (60s)
Insulation resistance(IR×C _N)		≥3000s(20°C,100Vd.c.,60s)
Dissipation factor		≤0.0020(100Hz,20°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
H C B B 6 1						/												(x	x	x)
Series code						AC rated voltage			Rated capacitance value			Capacitance tolerance	Pitch/Width of plastic case	Class of operation	Terminal code			Internal code				
						E2=250V S2=450V H2=500V			For example: 224=22×10 ⁴ pF =0.22μF			J=±5%		B-10000h C-3000h	See table 1			To identify when the special requirements needed				

Table 1 Terminal code

Digit 16		Digit 17		Digit 18	
Code	Terminal form	Code	Fixed style	Code	Length tolerance
1	One AMP250# per side	0	PCB(tin wires)	0	Standard tin wires lead=5.0mm±0.5mm; Standzard 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

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

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

250Va.c. (Class B/Class C) 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
1.0	37	20	10	HCBB61/E2105J2C***	6.0	47	27	17	HCBB61/E2605J4C***
1.5	37	20	10	HCBB61/E2155J2C***	6.5	47	27	17	HCBB61/E2655J4C***
2.0	37	22	12	HCBB61/E2205J2C***	7.0	47	32	17	HCBB61/E2705J4C***
2.5	37	22	12	HCBB61/E2255J2C***	7.5	47	32	17	HCBB61/E2755J4C***
3.0	37	28	15	HCBB61/E2305J2C***	8.0	47	32	17	HCBB61/E2805J4C***
3.5	37	28	15	HCBB61/E2355J2C***	9.0	47	34	18	HCBB61/E2905J4C***
4.0	37	28	15	HCBB61/E2405J2C***	10.0	47	32	21	HCBB61/E2106J4C***
4.5	37	28	18	HCBB61/E2455J2C***	11.0	47	35	22	HCBB61/E2116J4C***
5.0	37	28	18	HCBB61/E2505J2C***	12.0	47	35	22	HCBB61/E2126J4C***
5.5	37	28	18	HCBB61/E2555J2C***	12.5	47	36	23	HCBB61/E212EJ4C***
6.0	37	30	20	HCBB61/E2605J2C***	13.0	47	36	23	HCBB61/E2136J4C***
6.5	37	30	20	HCBB61/E2655J2C***	14.0	47	36	24	HCBB61/E2146J4C***
7.0	37	30	20	HCBB61/E2705J2C***	15.0	47	38	26	HCBB61/E2156J4C***
7.5	37	36	20	HCBB61/E2755J2C***	17.5	47	40	26	HCBB61/E217EJ4C***
8.0	37	36	20	HCBB61/E2805J2C***	15.0	57	35	23	HCBB61/E2156J5C***
9.0	37	36	20	HCBB61/E2905J2C***	20.0	57	40	23	HCBB61/E2206J5C***
3.5	47	26	14	HCBB61/E2355J4C***	25.0	57	45	25	HCBB61/E2256J5C***
4.0	47	26	14	HCBB61/E2405J4C***	30.0	57	45	25	HCBB61/E2306J5C***
4.5	47	26	14	HCBB61/E2455J4C***	35.0	67	45	30	HCBB61/E2356J6C***
5.0	47	27	17	HCBB61/E2505J4C***	45.0	67	54	34	HCBB61/E2456J6C***
5.5	47	27	17	HCBB61/E2555J4C***					

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

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
1.0	32	22	13	27.5	HCBB61/S2105JBB70*	2.0	36	27	14	32.5	HCBB61/S2205JDB70*
1.5	32	25	15	27.5	HCBB61/S2155JBB70*	2.5	36	28	16	32.5	HCBB61/S2255JDB70*
2.0	32	27	16	27.5	HCBB61/S2205JBB70*	3.0	36	30.5	19	32.5	HCBB61/S2305JDB70*
2.5	32	28	18	27.5	HCBB61/S2255JBB70*	3.5	36	30.5	19	32.5	HCBB61/S2355JDB70*
3.0	32	30	20	27.5	HCBB61/S2305JBB70*	4.0	36	34	22	32.5	HCBB61/S2405JDB70*
3.5	32	31	21	27.5	HCBB61/S2355JBB70*	4.5	36	34	22	32.5	HCBB61/S2455JDB70*
4.0	32	34	22	27.5	HCBB61/S2405JBB70*	5.0	36	36	24	32.5	HCBB61/S2505JDB70*
1.0	36	22.5	12	32.5	HCBB61/S2105JDB70*	5.5	36	38	22	32.5	HCBB61/S2555JDB70*
1.2	36	23	13	32.5	HCBB61/S2125JDB70*	6.0	36	38	24	32.5	HCBB61/S2605JDB70*
1.5	36	24.5	14	32.5	HCBB61/S2155JDB70*	6.5	36	38	26	32.5	HCBB61/S2655JDB70*
1.8	36	25.5	14.5	32.5	HCBB61/S2185JDB70*	7.0	36	39	27	32.5	HCBB61/S2705JDB70*
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		
1.0	37	22	12	HCBB61/S2105J2B***	5.5	47	35	22	HCBB61/S2555J4B***		
1.2	37	22	12	HCBB61/S2125J2B***	6.0	47	35	22	HCBB61/S2605J4B***		
1.5	37	24	14	HCBB61/S2155J2B***	6.5	47	35	22	HCBB61/S2655J4B***		
1.8	37	28	15	HCBB61/S2185J2B***	7.0	47	38	26	HCBB61/S2705J4B***		
2.0	37	28	15	HCBB61/S2205J2B***	7.5	47	38	26	HCBB61/S2755J4B***		
2.5	37	28	18	HCBB61/S2255J2B***	8.0	47	38	26	HCBB61/S2805J4B***		
3.0	37	30	18	HCBB61/S2305J2B***	9.0	47	38	26	HCBB61/S2905J4B***		
3.5	37	30	20	HCBB61/S2355J2B***	10.0	47	45	25	HCBB61/S2106J4B***		
4.0	37	32	20	HCBB61/S2405J2B***	11.0	47	45	30	HCBB61/S2116J4B***		
2.5	47	25	15	HCBB61/S2255J4B***	12.0	47	45	30	HCBB61/S2126J4B***		
3.0	47	27	17	HCBB61/S2305J4B***	12.5	47	45	30	HCBB61/S212EJ4B***		
3.5	47	27	17	HCBB61/S2355J4B***	15.0	57	45	27	HCBB61/S2156J5B***		
4.0	47	30	20	HCBB61/S2405J4B***	18.0	67	45	30	HCBB61/S2186J6B***		
4.5	47	32	21	HCBB61/S2455J4B***	20.0	67	45	30	HCBB61/S2206J6B***		
5.0	47	32	21	HCBB61/S2505J4B***	25.0	67	54	34	HCBB61/S2256J6B***		

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.

2) "****" = 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 C) 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	HCBB61/H2504JBC70*	6.5	36	41	26	32.5	HCBB61/H2655JDC70*
1.0	32	22	13	27.5	HCBB61/H2105JBC70*	7.0	36	45	30	32.5	HCBB61/H2705JDC70*
1.5	32	28	14	27.5	HCBB61/H2155JBC70*	7.5	36	45	30	32.5	HCBB61/H2755JDC70*
2.0	32	33	18	27.5	HCBB61/H2205JBC70*	8.0	36	45	30	32.5	HCBB61/H2805JDC70*
2.5	32	33	18	27.5	HCBB61/H2255JBC70*	2.0	42	28	14	37.5	HCBB61/H2205JFC70*
3.0	32	37	22	27.5	HCBB61/H2305JBC70*	2.5	41	30	16	37.5	HCBB61/H2255JFC70*
3.5	32	37	22	27.5	HCBB61/H2355JBC70*	3.0	41	32	17	37.5	HCBB61/H2305JFC70*
4.0	32	37	22	27.5	HCBB61/H2405JBC70*	3.5	41	32	17	37.5	HCBB61/H2355JFC70*
1.0	36	22	11	32.5	HCBB61/H2105JDC70*	4.0	41	33.5	18.5	37.5	HCBB61/H2405JFC70*
1.5	36	27	14	32.5	HCBB61/H2155JDC70*	4.5	41	37	22	37.5	HCBB61/H2455JFC70*
2.0	36	29	14	32.5	HCBB61/H2205JDC70*	5.0	41	37	22	37.5	HCBB61/H2505JFC70*
2.5	36	28	18	32.5	HCBB61/H2255JDC70*	5.5	41	37	22	37.5	HCBB61/H2555JFC70*
3.0	36	33	18	32.5	HCBB61/H2305JDC70*	6.0	41	37	22	37.5	HCBB61/H2605JFC70*
3.5	36	33	18	32.5	HCBB61/H2355JDC70*	6.5	41	41	26	37.5	HCBB61/H2655JFC70*
4.0	36	37	22	32.5	HCBB61/H2405JDC70*	7.0	41	41	26	37.5	HCBB61/H2705JFC70*
4.5	36	37	22	32.5	HCBB61/H2455JDC70*	7.5	41	41	26	37.5	HCBB61/H2755JFC70*
5.0	36	37	22	32.5	HCBB61/H2505JDC70*	8.0	42	45	30	37.5	HCBB61/H2805JFC70*
5.5	36	41	26	32.5	HCBB61/H2555JDC70*	8.5	42	45	30	37.5	HCBB61/H2855JFC70*
6.0	36	41	26	32.5	HCBB61/H2605JDC70*	9.0	42	45	30	37.5	HCBB61/H2905JFC70*
500Va.c. (Class C) 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	HCBB61/H2504J1C***	4.0	47	35	22	HCBB61/H2405J4C***		
1.0	32	22	13	HCBB61/H2105J1C***	4.5	47	35	22	HCBB61/H2455J4C***		
1.5	32	28	14	HCBB61/H2155J1C***	5.0	47	36	23	HCBB61/H2505J4C***		
1.8	32	33	18	HCBB61/H2185J1C***	5.5	47	36	23	HCBB61/H2555J4C***		
2.0	32	33	18	HCBB61/H2205J1C***	6.0	47	38	26	HCBB61/H2605J4C***		
2.5	32	33	18	HCBB61/H2255J1C***	6.5	47	38	26	HCBB61/H2655J4C***		
3.0	32	37	22	HCBB61/H2305J1C***	7.0	47	40	26	HCBB61/H2705J4C***		

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.

2) "****" = 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 C) 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		
3.5	32	37	22	HCBB61/H2355J1C***	7.5	47	40	26	HCBB61/H2755J4C***		
4.0	32	37	22	HCBB61/H2405J1C***	8.0	47	45	25	HCBB61/H2805J4C***		
1.0	37	23	13	HCBB61/H2105J2C***	8.5	47	45	25	HCBB61/H2855J4C***		
1.5	37	28	15	HCBB61/H2155J2C***	9.0	47	45	25	HCBB61/H2905J4C***		
1.8	37	28	15	HCBB61/H2185J2C***	10.0	47	45	30	HCBB61/H2106J4C***		
2.0	37	28	18	HCBB61/H2205J2C***	12.0	57	45	27	HCBB61/H2126J5C***		
2.5	37	30	20	HCBB61/H2255J2C***	15.0	67	45	30	HCBB61/H2156J6C***		
2.0	47	26	14	HCBB61/H2205J4C***	16.0	67	45	30	HCBB61/H2166J6C***		
2.5	47	27	17	HCBB61/H2255J4C***	18.0	67	54	34	HCBB61/H2186J6C***		
3.0	47	30	20	HCBB61/H2305J4C***	20.0	67	54	34	HCBB61/H2206J6C***		
3.5	47	32	21	HCBB61/H2355J4C***							
500Va.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	HCBB61/H2504JBB70*	2	42	28	14	37.5	HCBB61/H2205JFB70*
1	32	25	14	27.5	HCBB61/H2105JBB70*	2.5	41	30	16	37.5	HCBB61/H2255JFB70*
1.5	32	28	17	27.5	HCBB61/H2155JBB70*	3	41	32	17	37.5	HCBB61/H2305JFB70*
2	32	33	18	27.5	HCBB61/H2205JBB70*	3.5	41	33	18	37.5	HCBB61/H2355JFB70*
1	36	22	13	32.5	HCBB61/H2105JDB70*	4	41	34	20	37.5	HCBB61/H2405JFB70*
1.5	36	28	15	32.5	HCBB61/H2155JDB70*	4.5	41	37	22	37.5	HCBB61/H2455JFB70*
2	36	29	17	32.5	HCBB61/H2205JDB70*	5	41	37	22	37.5	HCBB61/H2505JFB70*
2.5	36	30	18	32.5	HCBB61/H2255JDB70*	5.5	41	37	26	37.5	HCBB61/H2555JFB70*
3	36	34	22	32.5	HCBB61/H2305JDB70*	6	41	37	26	37.5	HCBB61/H2605JFB70*
3.5	36	34	22	32.5	HCBB61/H2355JDB70*	6.5	41	41	26	37.5	HCBB61/H2655JFB70*
4	36	37	22	32.5	HCBB61/H2405JDB70*	7	41	43	28	37.5	HCBB61/H2705JFB70*
4.5	36	41	26	32.5	HCBB61/H2455JDB70*	7.5	41	43	28	37.5	HCBB61/H2755JFB70*
5	36	41	26	32.5	HCBB61/H2505JDB70*	8	42	45	30	37.5	HCBB61/H2805JFB70*
5.5	36	41	26	32.5	HCBB61/H2555JDB70*	8.5	42	45	30	37.5	HCBB61/H2855JFB70*
6	36	45	30	32.5	HCBB61/H2605JDB70*						

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.

2) "****" = 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) 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
6.5	36	45	30	32.5	HCBB61/H2655JDB70*	7	36	45	30	32.5	HCBB61/H2705JDB70*
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	20	11	HCBB61/H2504J1B***	3.5	47	34	18	HCBB61/H2355J4B***		
1.0	32	28	14	HCBB61/H2105J1B***	4.0	47	34	20	HCBB61/H2405J4B***		
1.5	32	33	18	HCBB61/H2155J1B***	4.5	47	35	22	HCBB61/H2455J4B***		
1.8	32	33	18	HCBB61/H2185J1B***	5.0	47	36	23	HCBB61/H2505J4B***		
2.0	32	33	18	HCBB61/H2205J1B***	5.5	47	38	26	HCBB61/H2555J4B***		
1.0	37	24	13.5	HCBB61/H2105J2B***	6.0	47	38	26	HCBB61/H2605J4B***		
1.5	37	28	15	HCBB61/H2155J2B***	6.5	47	40	26	HCBB61/H2655J4B***		
1.8	37	28	18	HCBB61/H2185J2B***	7.0	47	45	27	HCBB61/H2705J4B***		
2.0	37	30	18	HCBB61/H2205J2B***	7.5	47	45	27	HCBB61/H2755J4B***		
2.5	37	32	21	HCBB61/H2255J2B***	8.0	47	45	27	HCBB61/H2805J4B***		
2.0	47	28	15	HCBB61/H2205J4B***	8.5	47	45	30	HCBB61/H2855J4B***		
2.5	47	27	17	HCBB61/H2255J4B***	9.0	47	45	30	HCBB61/H2905J4B***		
3.0	47	32	17	HCBB61/H2305J4B***	10.0	57	45	27	HCBB61/H2106J5B***		

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.

2) "***" = 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.