

HCBB62-X2T




Metallized polypropylene film interference suppression capacitor
(Class X2, 310V/350V Temperature Humidity Bias/THB version)



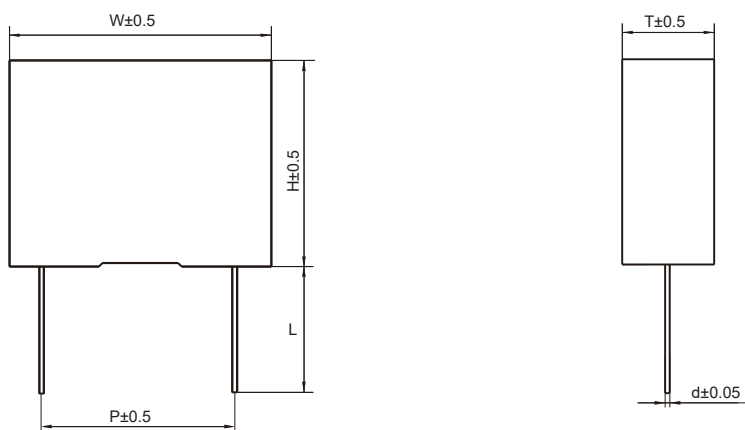
Features

- Used in anti-interference occasions such as power supply cross line
- Metallized polypropylene film ,encapsulated in flame-resistant plastic case,sealed with epoxy resin
- Withstand overvoltage impact
- Excellent flame resistant ability
- High stability of capacitance under sever ambient condition, such as high temperature and high himidity
- Compliance with AEC-Q200 standard requirements

Safety Approvals

	CQC	GB/T 6346.14	0.001μF-25μF,X2,±10%(K),±20%(M), 275/305/310/330/350Va.c. 40/110/56B,40/100/56B, 40/100/21B, 40/85/21B,40/85/56B File No.: CQC21001289371
	ENEC-VDE	EN 60384-14 IEC 60384-14	0.001μF-25μF,X2,±10%(K),±20%(M), 275/305/310/330/350Va.c. 40/110/56B; 40/100/56B; 40/100/21B; 40/85/21B;40/85/56B File No.: 125834
	UL/CUL	UL 60384-14 CSA E60384 - 1:14 CSA E60384 - 14:14	0.001μF-25μF,X2,±10%(K),±20%(M), 250/275/305/310/330/350Va.c. 40/110/56B; 40/100/56B; 40/100/21B; 40/85/21B;40/85/56B File No.: E311928,CCN:FOWX2/8

Outline Drawing



Note: The dimensions of the product are in mm units.
Outline dimensions can be found in the Product Dimensions Table.

Specifications

Reference standard		GB/T 6346.14 (IEC 60384-14)	
Rated voltage		310Va.c.(50Hz/60Hz)	350Va.c.(50Hz/60Hz)
Maximum continuous DC voltage		560Vd.c.	630Vd.c.
Capacitance range		0.1 μ F~25 μ F	0.1 μ F~20 μ F
Capacitance tolerance		$\pm 10\%$ (K), $\pm 20\%$ (M)(20°C, 1kHz)	
Climatic category/ flame resistant category		40/110/56/B	
Operation temperature range		-40°C~+110°C	
Voltage proof	Between terminals	4.3U _R (Vd.c.)/2s	
	Between terminals and case	2200Va.c./1min	
Insulation resistance (IR×C _N)		C _N ≤0.33 μ F, IR≥15000 M Ω C _N >0.33 μ F, IR×C _N ≥5000s	(20°C, 100Vd.c., 1min)
Dissipation Factor		0.10 μ F≤C _N ≤1.0 μ F	≤0.0015(1kHz, 20°C) ≤0.0040(10kHz, 20°C)
		1.0 μ F<C _N ≤10.0 μ F	≤0.0030(1kHz, 20°C) _____
		C _N >10.0 μ F	≤0.0040(1kHz, 20°C) _____
THB test (Damp Heat Test with Loading)		Temperature: 85°C±2°C; Humidity: 85%RH±2%RH Voltage: 300Va.c. 50Hz; Duration 1000h Capacitance change ($\Delta C/C$): ≤10% Dissipation factor change ($\Delta \tan \delta$): ≤0.5%(1kHz) Insulation resistance: ≥50% of the rated value	

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	26	27
H	C	B	B	6	2	X	2	T	/													(X	X	X)
Series code								THB	AC rated voltage	Rated capacitance value	Capacitance tolerance	Pitch	Internal code	lead form and packaging code	Internal code											
									Q3=310V R2=350V		K=±10% M=±20%			M-Inner string structure	See table 1											
									For example: 224=22×10 ⁴ p F=0.22μF			6=15mm 9=22.5mm B=27.5mm F=37.5mm M=52.5mm		To identify when the special requirements needed												

Note: (1) The customer special requirement express as special code after evaluating by Hongfa.

Table1: Terminal Code

Digit 19		Digit 20		Digit 21		Digit 22	
Code	explanation	Code	explanation	Code	explanation	Code	explanation
A	Ammo-pack	3	F=7.5	0	Straight lead	1	Between two consecutive mounting holes P=12.7mm,H0=18mm(Pitch=7.5)
		4	F=10.0			5	P=25.4mm,H0=18mm(Pitch=10.0/15.0)
		6	F=15.0				
C	straight lead (bulk package)	00	standard lead length (18mm±1mm)			0	length tolerance ±0.5mm Or standard lead length
		35	lead length 3.5mm ⁽¹⁾				

Note: (1) If the length of lead is 4.5mm, then the code number is C450, the rest can be deduced by analogy.

Outline Dimensions

310Va.c.													
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	Ordering Information	C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	Ordering Information
0.10	18.0	12.0	6.0	15.0	0.6	HCBB62X2T/Q3104*6M****	1.8	26.5	24.5	15.5	22.5	0.8	HCBB62X2T/Q3185*9M****
0.12	18.0	12.0	6.0	15.0	0.6	HCBB62X2T/Q3124*6M****	2.2	26.5	31.0	15.5	22.5	0.8	HCBB62X2T/Q3225*9M****
0.15	18.0	13.5	7.5	15.0	0.6	HCBB62X2T/Q3154*6M****	0.47	32.0	18.0	9.0	27.5	0.8	HCBB62X2T/Q3474*BM****
0.18	18.0	13.5	7.5	15.0	0.6	HCBB62X2T/Q3184*6M****	0.56	32.0	18.0	9.0	27.5	0.8	HCBB62X2T/Q3564*BM****
0.22	18.0	14.5	8.5	15.0	0.6	HCBB62X2T/Q3224*6M****	0.68	32.0	18.0	9.0	27.5	0.8	HCBB62X2T/Q3684*BM****
0.27	18.0	14.5	8.5	15.0	0.6	HCBB62X2T/Q3274*6M****	0.82	32.0	20.0	11.0	27.5	0.8	HCBB62X2T/Q3824*BM****
0.33	18.0	16.0	10.0	15.0	0.8	HCBB62X2T/Q3334*6M****	1.0	32.0	20.0	11.0	27.5	0.8	HCBB62X2T/Q3105*BM****
0.39	18.0	18.0	10.0	15.0	0.8	HCBB62X2T/Q3394*6M****	1.2	32.0	20.0	11.0	27.5	0.8	HCBB62X2T/Q3125*BM****
0.47	18.0	19.0	11.0	15.0	0.8	HCBB62X2T/Q3474*6M****	1.5	32.0	22.0	13.0	27.5	0.8	HCBB62X2T/Q3155*BM****
0.33	26.5	16.0	7.0	22.5	0.8	HCBB62X2T/Q3334*9M****	1.8	32.0	25.0	13.0	27.5	0.8	HCBB62X2T/Q3185*BM****
0.39	26.5	17.0	8.5	22.5	0.8	HCBB62X2T/Q339*9M****	2.2	32.0	24.5	15.0	27.5	0.8	HCBB62X2T/Q3225*BM****
0.47	26.5	17.0	8.5	22.5	0.8	HCBB62X2T/Q3474*9M****	2.7	32.0	30.0	16.0	27.5	0.8	HCBB62X2T/Q3275*BM****
0.56	26.5	19.0	10.0	22.5	0.8	HCBB62X2T/Q3564*9M****	3.3	32.0	30.0	16.0	27.5	0.8	HCBB62X2T/Q3335*BM****
0.68	26.5	19.0	10.0	22.5	0.8	HCBB62X2T/Q3684*9M****	3.9	32.0	33.0	18.0	27.5	0.8	HCBB62X2T/Q3395*BM****
0.82	26.5	20.0	11.0	22.5	0.8	HCBB62X2T/Q3824*9M****	4.7	32.0	34.0	20.0	27.5	0.8	HCBB62X2T/Q3475*BM****
1.0	26.5	22.0	12.0	22.5	0.8	HCBB62X2T/Q3105*9M****	5.6	32.0	37.0	22.0	27.5	0.8	HCBB62X2T/Q3565*BM****
1.2	26.5	22.0	12.0	22.5	0.8	HCBB62X2T/Q3125*9M****	6.8	32.0	40.0	24.0	27.5	0.8	HCBB62X2T/Q3685*BM****
1.5M	26.5	23.0	13.5	22.5	0.8	HCBB62X2T/Q3155M9M****	1.5	42.0	22.0	11.0	37.5	1.0	HCBB62X2T/Q3155*FM****
1.5K	26.5	24.5	14.5	22.5	0.8	HCBB62X2T/Q3155K9M****	1.8	42.0	24.0	13.0	37.5	1.0	HCBB62X2T/Q3185*FM****

Note: (1) “*” means capacitance tolerance code, K=±10%, M=±20%; “****”=terminal code and packing code(see table 1)

(2) When the rated voltage is 350Va.c.,the product is only CQC approved.

Outline Dimensions

310Va.c.													
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	Ordering Information	C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	Ordering Information
2.2	42.0	24.0	13.0	37.5	1.0	HCBB62X2T/Q3225*FM****	8.2	42.0	37.0	26.0	37.5	1.0	HCBB62X2T/Q3825*FM****
2.7	42.0	26.0	15.0	37.5	1.0	HCBB62X2T/Q3275*FM****	10.0	42.0	41.0	26.0	37.5	1.0	HCBB62X2T/Q3106*FM****
3.3	42.0	28.0	14.0	37.5	1.0	HCBB62X2T/Q3335*FM****	12.0	42.0	43.0	28.0	37.5	1.0	HCBB62X2T/Q3126*FM****
3.9	42.0	30.0	16.0	37.5	1.0	HCBB62X2T/Q3395*FM****	15.0M	42.0	45.0	30.0	37.5	1.0	HCBB62X2T/Q3156MFM****
4.7	42.0	32.0	17.0	37.5	1.0	HCBB62X2T/Q3475*FM****	15.0K	42.0	50.0	30.0	37.5	1.0	HCBB62X2T/Q3156KFM****
5.6	42.0	33.5	18.5	37.5	1.0	HCBB62X2T/Q3565*FM****	18.0	57.5	45.0	30.0	52.5	1.2	HCBB62X2T/Q3186*MM****
6.8M	42.0	34.0	20.0	37.5	1.0	HCBB62X2T/Q3685MFM****	20.0M	57.5	45.0	30.0	52.5	1.2	HCBB62X2T/Q3206MMM****
6.8K	42.0	37.0	22.0	37.5	1.0	HCBB62X2T/Q3685KFM****	20.0K	57.5	48.0	30.0	52.5	1.2	HCBB62X2T/Q3206KMM****
							25.0	57.5	50.0	35.0	52.5	1.2	HCBB62X2T/Q3256*MM****
350Va.c.													
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	Ordering Information	C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	Ordering Information
0.10	18.0	13.5	7.5	15.0	0.6	HCBB62X2T/R2104*6M****	0.68	26.5	20.0	11.0	22.5	0.8	HCBB62X2T/R2684*9M****
0.12	18.0	13.5	7.5	15.0	0.6	HCBB62X2T/R2124*6M****	0.82	26.5	22.0	12.0	22.5	0.8	HCBB62X2T/R2824*9M****
0.15	18.0	14.5	8.5	15.0	0.8	HCBB62X2T/R2154*6M****	1.0	26.5	23.0	13.5	22.5	0.8	HCBB62X2T/R2105*9M****
0.18	18.0	14.5	8.5	15.0	0.8	HCBB62X2T/R2184*6M****	1.2	26.5	24.5	14.5	22.5	0.8	HCBB62X2T/R2125*9M****
0.22	18.0	16.0	10.0	15.0	0.8	HCBB62X2T/R2224*6M****	1.5	26.5	29.5	14.5	22.5	0.8	HCBB62X2T/R2155*9M****
0.27	18.0	16.0	10.0	15.0	0.8	HCBB62X2T/R2274*6M****	1.8	26.5	31.0	15.5	22.5	0.8	HCBB62X2T/R2185*9M****
0.33	18.0	19.0	11.0	15.0	0.8	HCBB62X2T/R2334*6M****	0.33	32.0	18.0	9.0	27.5	0.8	HCBB62X2T/R2334*BM****
0.10	26.5	15.0	6.0	22.5	0.8	HCBB62X2T/R2104*9M****	0.39	32.0	18.0	9.0	27.5	0.8	HCBB62X2T/R2394*BM****
0.12	26.5	15.0	6.0	22.5	0.8	HCBB62X2T/R2124*9M****	0.47	32.0	18.0	9.0	27.5	0.8	HCBB62X2T/R2474*BM****
0.15	26.5	16.0	7.0	22.5	0.8	HCBB62X2T/R2154*9M****	0.56	32.0	18.0	9.0	27.5	0.8	HCBB62X2T/R2564*BM****
0.18	26.5	16.0	7.0	22.5	0.8	HCBB62X2T/R2184*9M****	0.68	32.0	20.0	11.0	27.5	0.8	HCBB62X2T/R2684*BM****
0.22	26.5	16.0	7.0	22.5	0.8	HCBB62X2T/R2224*9M****	0.82	32.0	20.0	11.0	27.5	0.8	HCBB62X2T/R2824*BM****
0.27	26.5	16.0	7.0	22.5	0.8	HCBB62X2T/R2274*9M****	1.0	32.0	22.0	13.0	27.5	0.8	HCBB62X2T/R2105*BM****
0.33	26.5	17.0	8.5	22.5	0.8	HCBB62X2T/R2334*9M****	1.2	32.0	22.0	13.0	27.5	0.8	HCBB62X2T/R2125*BM****
0.39M	26.5	17.0	8.5	22.5	0.8	HCBB62X2T/R2394M9M****	1.5	32.0	24.5	15.0	27.5	0.8	HCBB62X2T/R2155*BM****
0.39K	26.5	19.0	10.0	22.5	0.8	HCBB62X2T/R2394K9M****	1.8	32.0	28.0	14.0	27.5	0.8	HCBB62X2T/R2185*BM****
0.47	26.5	19.0	10.0	22.5	0.8	HCBB62X2T/R2474*9M****	2.2	32.0	30.0	16.0	27.5	0.8	HCBB62X2T/R2225*BM****
0.56	26.5	19.0	10.0	22.5	0.8	HCBB62X2T/R2564*9M****	2.7	32.0	33.0	18.0	27.5	0.8	HCBB62X2T/R2275*BM****

Note: (1) “*” means capacitance tolerance code, K=±10%, M=±20%; “****”=terminal code and packing code(see table 1)

(2) When the rated voltage is 350Va.c.,the product is only CQC approved.

Outline Dimensions

350Va.c.													
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	Ordering Information	C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	Ordering Information
3.3M	32.0	33.0	18.0	27.5	0.8	HCBB62X2T/R2335MBM****	3.3K	42.0	32.0	17.0	37.5	1.0	HCBB62X2T/R2335KFM****
3.3K	32.0	38.0	18.0	27.5	0.8	HCBB62X2T/R2335KBM****	3.9	42.0	34.0	20.0	37.5	1.0	HCBB62X2T/R2395*FM****
3.9	32.0	37.0	22.0	27.5	0.8	HCBB62X2T/R2395*BM****	4.7M	42.0	34.0	20.0	37.5	1.0	HCBB62X2T/R2475MFM****
4.7M	32.0	37.0	22.0	27.5	0.8	HCBB62X2T/R2475MBM****	4.7K	42.0	37.0	22.0	37.5	1.0	HCBB62X2T/R2475KFM****
4.7K	32.0	38.0	24.0	27.5	0.8	HCBB62X2T/R2475KBM****	5.6	42.0	37.0	22.0	37.5	1.0	HCBB62X2T/R2565*FM****
0.68	42.0	22.0	11.0	37.5	1.0	HCBB62X2T/R2684*FM****	6.8M	42.0	37.0	24.0	37.5	1.0	HCBB62X2T/R2685MFM****
0.82	42.0	22.0	11.0	37.5	1.0	HCBB62X2T/R2824*FM****	6.8K	42.0	37.0	26.0	37.5	1.0	HCBB62X2T/R2685KFM****
1.0	42.0	22.0	11.0	37.5	1.0	HCBB62X2T/R2105*FM****	8.2	42.0	43.0	28.0	37.5	1.0	HCBB62X2T/R2825*FM****
1.2	42.0	22.0	11.0	37.5	1.0	HCBB62X2T/R2125*FM****	10.0	42.0	45.0	30.0	37.5	1.0	HCBB62X2T/R2106*FM****
1.5	42.0	24.0	13.0	37.5	1.0	HCBB62X2T/R2155*FM****	12.0	57.5	45.0	30.0	52.5	1.2	HCBB62X2T/R2126*MM****
1.8	42.0	26.0	15.0	37.5	1.0	HCBB62X2T/R2185*FM****	15.0M	57.5	45.0	30.0	52.5	1.2	HCBB62X2T/R2156MMM****
2.2	42.0	26.0	15.0	37.5	1.0	HCBB62X2T/R2225*FM****	15.0K	57.5	48.0	30.0	52.5	1.2	HCBB62X2T/R2156KMM****
2.7	42.0	30.0	16.0	37.5	1.0	HCBB62X2T/R2275*FM****	18.0	57.5	50.0	35.0	52.5	1.2	HCBB62X2T/R2186*MM****
3.3M	42.0	30.0	16.0	37.5	1.0	HCBB62X2T/R2335MFM****	20.0M	57.5	50.0	35.0	52.5	1.2	HCBB62X2T/R2206MMM****

Note: (1) “*” means capacitance tolerance code, K=±10%, M=±20%; “****”=terminal code and packing code(see table 1)

(2) When the rated voltage is 350Va.c.,the product is only CQC approved.