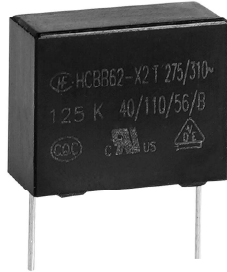


# HCBB62-X2T




Metallized polypropylene film interference suppression capacitor  
(Class X2, 275V/310V Temperature Humidity Bias/THB version)



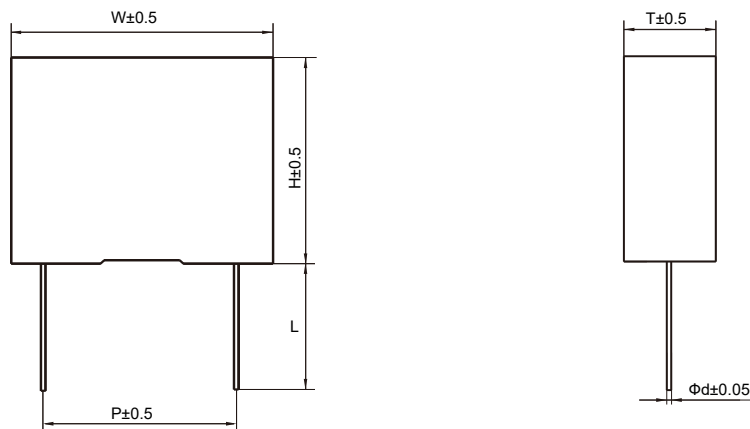
## Features

- Used in across-the-line, interference suppression circuit
- Metallized polypropylene film structure, plastic case, filled with resin
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- High stability of capacitance under severe ambient condition, such as high temperature and high humidity.
- Compliance with AEC-Q200 standard requirements

## Safety Approvals

	CQC	GB/T 6346.14	0.001μF-25μF, X2, ±10%(K), ±20%(M), 275/305/310/330/350V a.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), 275/305/310/330/350V a.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), 250/275/305/310/330/350V a.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/T6346.14 (IEC 60384-14)	
Rated voltage		275Va.c./310Va.c. (50Hz/60Hz)	
Capacitance range		0.022μF ~ 25μF	
Capacitance tolerance		±10%(K), ±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 <sub>R</sub> (Vd.c.)/2s	
	Between terminals and case	2120Va.c./2s	
Insulation resistance(IR×C <sub>N</sub> )		C <sub>N</sub> ≤0.33μF, IR≥15000 MΩ C <sub>N</sub> >0.33μF, IR×C <sub>N</sub> ≥5000s	(20°C, 100Vdc, 1min)
Dissipation Factor		C <sub>N</sub> ≤1.0μF	≤0.0010(1kHz, 20°C)    ≤0.0020(10kHz, 20°C)
		C <sub>N</sub> >1.0μF	≤0.0020(1kHz, 20°C)    ≤0.0040(10kHz, 20°C)
THB test (Damp Heat Test with Loading)		Temperature: 85°C±2°C; Humidity: 85%RH±2%RH Voltage: 240Va.c. 50Hz; Duration 1000h Capacitance change (ΔC/C): ≤10% Dissipation factor change(Δtanδ): ≤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				
														K=±10% M=±20%			0-Standard	To identify when the special requirements needed								
																		See table 1								

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 <sup>1)</sup>				

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

250Va.c./275Va.c./305Va.c./310Va.c.													
C <sub>N</sub> (μF)	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	Ordering Information	C <sub>N</sub> (μF)	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	Ordering Information
0.022	18.0	11.0	5.0	15.0	0.6	HCB62X2T/Q3223*60****	0.82	26.5	20.0	11.0	22.5	0.8	HCB62X2T/Q3824*90****
0.033	18.0	11.0	5.0	15.0	0.6	HCB62X2T/Q3333*60****	1.0	26.5	22.0	12.0	22.5	0.8	HCB62X2T/Q3105*90****
0.047	18.0	11.0	5.0	15.0	0.6	HCB62X2T/Q3473*60****	1.2	26.5	22.0	12.0	22.5	0.8	HCB62X2T/Q3125*90****
0.068	18.0	11.0	5.0	15.0	0.6	HCB62X2T/Q3683*60****	1.5	26.5	24.5	14.5	22.5	0.8	HCB62X2T/Q3155*90****
0.10	18.0	12.0	6.0	15.0	0.6	HCB62X2T/Q3104*60****	1.8	26.5	24.5	15.5	22.5	0.8	HCB62X2T/Q3185*90****
0.15	18.0	13.5	7.5	15.0	0.6	HCB62X2T/Q3154*60****	2.2	26.5	29.5	14.5	22.5	0.8	HCB62X2T/Q3225*90****
0.18	18.0	13.5	7.5	15.0	0.6	HCB62X2T/Q3184*60****	0.47	32.0	18.0	9.0	27.5	0.8	HCB62X2T/Q3474*B0****
0.22	18.0	14.5	8.5	15.0	0.8	HCB62X2T/Q3224*60****	0.56	32.0	18.0	9.0	27.5	0.8	HCB62X2T/Q3564*B0****
0.27	18.0	14.5	8.5	15.0	0.8	HCB62X2T/Q3274*60****	0.68	32.0	18.0	9.0	27.5	0.8	HCB62X2T/Q3684*B0****
0.33	18.0	16.0	10.0	15.0	0.8	HCB62X2T/Q3334*60****	0.82	32.0	20.0	11.0	27.5	0.8	HCB62X2T/Q3824*B0****
0.39	18.0	19.0	11.0	15.0	0.8	HCB62X2T/Q3394*60****	1.0	32.0	20.0	11.0	27.5	0.8	HCB62X2T/Q3105*B0****
0.47	18.0	19.0	11.0	15.0	0.8	HCB62X2T/Q3474*60****	1.2	32.0	22.0	13.0	27.5	0.8	HCB62X2T/Q3125*B0****
0.15	26.5	15.0	6.0	22.5	0.8	HCB62X2T/Q3154*90****	1.5	32.0	22.0	13.0	27.5	0.8	HCB62X2T/Q3155*B0****
0.22	26.5	15.0	6.0	22.5	0.8	HCB62X2T/Q3224*90****	1.8	32.0	25.0	13.0	27.5	0.8	HCB62X2T/Q3185*B0****
0.33	26.5	16.0	7.0	22.5	0.8	HCB62X2T/Q3334*90****	2.2	32.0	28.0	14.0	27.5	0.8	HCB62X2T/Q3225*B0****
0.39	26.5	17.0	8.5	22.5	0.8	HCB62X2T/Q3394*90****	2.7	32.0	30.0	16.0	27.5	0.8	HCB62X2T/Q3275*B0****
0.47	26.5	17.0	8.5	22.5	0.8	HCB62X2T/Q3474*90****	3.3	32.0	33.0	18.0	27.5	0.8	HCB62X2T/Q3335*B0****
0.56	26.5	19.0	10.0	22.5	0.8	HCB62X2T/Q3564*90****	3.9	32.0	33.0	18.0	27.5	0.8	HCB62X2T/Q3395*B0****
0.68	26.5	19.0	10.0	22.5	0.8	HCB62X2T/Q3684*90****	4.7	32.0	37.0	22.0	27.5	0.8	HCB62X2T/Q3475*B0****

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

(2) When the rated voltage is 275Va.c.,the digit 11 ~ 12 is P2.

**Outline Dimensions**

250Va.c./275Va.c./305Va.c./310Va.c.													
C <sub>N</sub> (μF)	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	Ordering Information	C <sub>N</sub> (μF)	W (mm)	H (mm)	T (mm)	P (mm)	d (mm)	Ordering Information
1.5	42.0	22.0	11.0	37.5	1.0	HCBB62X2T/Q3155*F0****	6.8	42.0	37.0	22.0	37.5	1.0	HCBB62X2T/Q3685*F0****
1.8	42.0	22.0	11.0	37.5	1.0	HCBB62X2T/Q3185*F0****	8.2	42.0	37.0	26.0	37.5	1.0	HCBB62X2T/Q3825*F0****
2.2	42.0	24.0	13.0	37.5	1.0	HCBB62X2T/Q3225*F0****	10.0	42.0	41.0	26.0	37.5	1.0	HCBB62X2T/Q3106*F0****
2.7	42.0	28.0	14.0	37.5	1.0	HCBB62X2T/Q3275*F0****	12.0	42.0	43.0	28.0	37.5	1.0	HCBB62X2T/Q3126*F0****
3.3	42.0	30.0	16.0	37.5	1.0	HCBB62X2T/Q3335*F0****	15.0M	42.0	45.0	30.0	37.5	1.0	HCBB62X2T/Q3156MF0****
3.9	42.0	30.0	16.0	37.5	1.0	HCBB62X2T/Q3395*F0****	15.0K	42.0	50.0	30.0	37.5	1.0	HCBB62X2T/Q3156KF0****
4.7M	42.0	30.0	16.0	37.5	1.0	HCBB62X2T/Q3475MF0****	18.0	57.5	45.0	30.0	52.5	1.2	HCBB62X2T/Q3186*M0****
4.7K	42.0	32.0	17.0	37.5	1.0	HCBB62X2T/Q3475KF0****	20.0	57.5	45.0	30.0	52.5	1.2	HCBB62X2T/Q3206*M0****
5.6	42.0	34.0	20.0	37.5	1.0	HCBB62X2T/Q3565*F0****	25.0	57.5	50.0	35.0	52.5	1.2	HCBB62X2T/Q3256*M0****

Note: (1) “\*” means capacitance tolerance code, K=±10%, M=±20%; “\*\*\*\*”=terminal code and packing code(see table 1);  
 (2) When the rated voltage is 275Va.c.,the digit 11 ~ 12 is P2.