

HCBB62X2




Metalized polypropylene film interference suppression capacitor
(Class X2, 275V/310V,Miniature version)



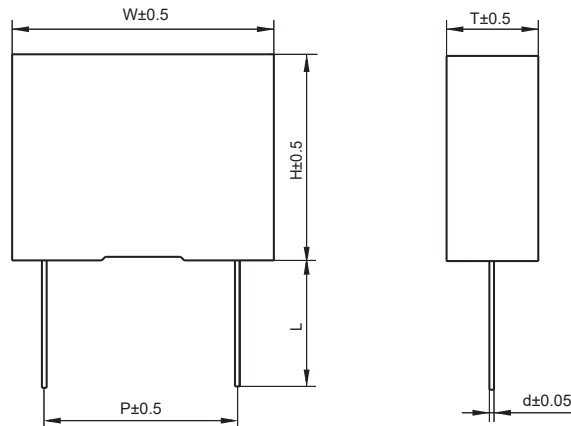
Features

- Used for interference suppression, across-the-line applications
- Encapsulated in flame-resistant plastic case,sealed with epoxy resin
- Widely used in anti-interference occasions such as power supply cross line (indoor)

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 |

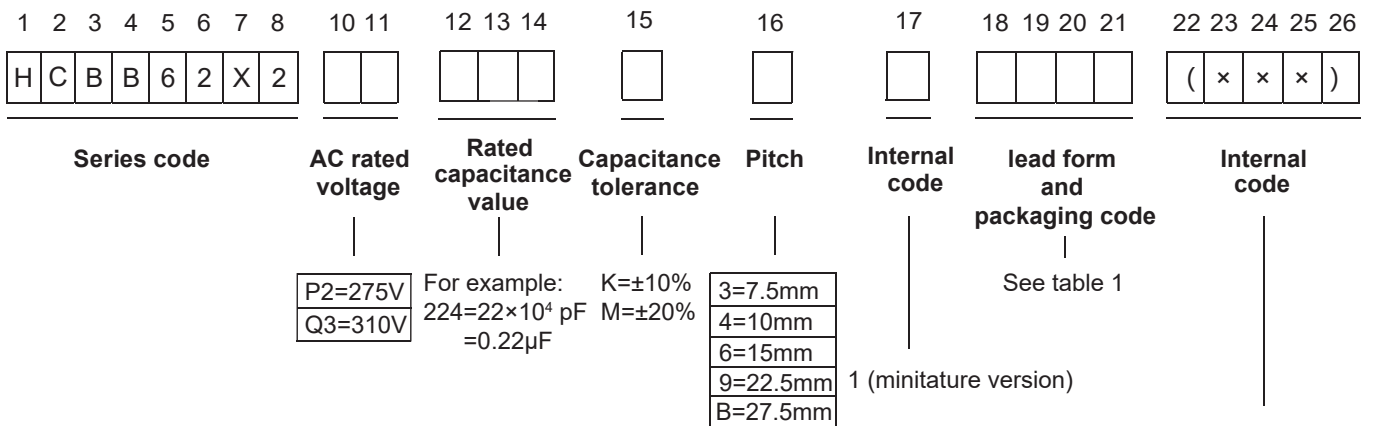
Outline Drawing



Specifications

| | | | |
|-----------------------------|--|------------------------------|----------------------|
| Reference standard | GB/T 6346.14 (IEC 60384-14) | | |
| Climatic category | 40/110/56/B | | |
| Operating temperature range | -40°C ~+110°C | | |
| Rated temperature | +110°C | | |
| Rated voltage | 275Va.c./310Va.c. (50Hz/60Hz) | | |
| Max. continuous DC voltage | 560Vd.c. | | |
| Capacitance range | 0.027μF~8.2μF | | |
| Capacitance tolerance | ±10%(K),±20%(M) (20°C,1kHz) | | |
| Voltage proof | Between terminals | 4.3U _R (Vd.c.)/2s | |
| | Between terminals & case | 2120Va.c./2s | |
| Insulation resistance | $\geq 15\ 000\ \Omega, C_N \leq 0.33\ \mu\text{F}$ $\geq 5\ 000\ \text{s}, C_N > 0.33\ \mu\text{F}$ | | (20°C,100Vd.c.,1min) |
| Dissipation factor | 0.027μF ≤ C _N ≤ 0.47μF | ≤0.0010(1kHz,20°C) | ≤0.0020(10kHz,20°C) |
| | 0.47μF < C _N ≤ 1.0μF | ≤0.0020(1kHz,20°C) | ≤0.0040(10kHz,20°C) |
| | 1.0μF < C _N ≤ 10.0μF | ≤0.0030(1kHz,20°C) | |

Ordering Information



To identify when the special requirements needed

Table 1 Terminal code

| Digit 18 | | Digit 19 | | Digit 20 | | Digit 21 | |
|----------|---|----------|----------------------------------|----------|---------------|----------|---|
| 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 "C" in the figure above (bulk package) | 00 | standard lead length (18±1mm) | 0 | | 0 | length tolerance ±0.5mm Or standard lead length |
| | | 35 | lead length=3.5mm ⁽¹⁾ | | | | |

Notes: (1) If the length of lead is 4.5mm, then the code number is C450,etc.

Outline Dimensions

| 275Va.c./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 |
| 0.027 | 10.0 | 9.0 | 4.0 | 7.5 | 0.6 | HCBB62X2/Q3273-31**** | 0.15 | 18.0 | 11.0 | 5.0 | 15.0 | 0.6 | HCBB62X2/Q3154-61**** |
| 0.033 | 10.0 | 9.0 | 4.0 | 7.5 | 0.6 | HCBB62X2/Q3333-31**** | 0.18 | 18.0 | 11.0 | 5.0 | 15.0 | 0.6 | HCBB62X2/Q3184-61**** |
| 0.039 | 10.0 | 9.0 | 4.0 | 7.5 | 0.6 | HCBB62X2/Q3393-31**** | 0.22 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | HCBB62X2/Q3224-61**** |
| 0.047 | 10.0 | 10.0 | 5.0 | 7.5 | 0.6 | HCBB62X2/Q3473-31**** | 0.27 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | HCBB62X2/Q3274-61**** |
| 0.056 | 10.0 | 10.0 | 5.0 | 7.5 | 0.6 | HCBB62X2/Q3563-31**** | 0.33 | 18.0 | 13.0 | 7.0 | 15.0 | 0.8 | HCBB62X2/Q3334-61**** |
| 0.068 | 10.0 | 11.0 | 5.0 | 7.5 | 0.6 | HCBB62X2/Q3683-31**** | 0.39 | 18.0 | 13.5 | 7.5 | 15.0 | 0.8 | HCBB62X2/Q3394-61**** |
| 0.082 | 10.0 | 12.0 | 6.0 | 7.5 | 0.6 | HCBB62X2/Q3823-31**** | 0.47 | 18.0 | 14.5 | 8.5 | 15.0 | 0.8 | HCBB62X2/Q3474-61**** |
| 0.10 | 10.0 | 12.0 | 6.0 | 7.5 | 0.6 | HCBB62X2/Q3104-31**** | 0.56 | 18.0 | 16.0 | 10.0 | 15.0 | 0.8 | HCBB62X2/Q3564-61**** |
| 0.047 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | HCBB62X2/Q3473-41**** | 0.68 | 18.0 | 16.0 | 10.0 | 15.0 | 0.8 | HCBB62X2/Q3684-61**** |
| 0.10 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | HCBB62X2/Q3104-41**** | 0.82 | 18.0 | 19.0 | 11.0 | 15.0 | 0.8 | HCBB62X2/Q3824-61**** |
| 0.12M | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | HCBB62X2/Q3124M41**** | 0.47 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | HCBB62X2/Q3474-91**** |
| 0.12K | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | HCBB62X2/Q3124K41**** | 0.56 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | HCBB62X2/Q3564-91**** |
| 0.15 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | HCBB62X2/Q3154-41**** | 0.68 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | HCBB62X2/Q3684-91**** |
| 0.18 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | HCBB62X2/Q3184-41**** | 0.82 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | HCBB62X2/Q3824-91**** |
| 0.22 | 13.0 | 14.0 | 8.0 | 10.0 | 0.6 | HCBB62X2/Q3224-41**** | 1.0 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | HCBB62X2/Q3105-91**** |

Notes: (1) "-" means capacitance tolerance code, K=±10%, M=±20% ; "****" means lead form and packaging code (See table 1)
 (2)When the rated voltage is 275Va.c.,the digit 10~11 is P2.

Outline Dimensions

| 275Va.c. /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 |
| 1.2 | 26.5 | 19.0 | 10.0 | 22.5 | 0.8 | HCBB62X2/Q3125-91**** | 1.8 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | HCBB62X2/Q3185-B1**** |
| 1.5 | 26.5 | 20.0 | 11.0 | 22.5 | 0.8 | HCBB62X2/Q3155-91**** | 2.2 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | HCBB62X2/Q3225-B1**** |
| 1.8 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | HCBB62X2/Q3185-91**** | 2.7 | 32.0 | 25.0 | 13.0 | 27.5 | 0.8 | HCBB62X2/Q3275-B1**** |
| 2.0 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | HCBB62X2/Q3205-91**** | 3.3 | 32.0 | 24.5 | 15.0 | 27.5 | 0.8 | HCBB62X2/Q3335-B1**** |
| 2.2 | 26.5 | 23.0 | 13.5 | 22.5 | 0.8 | HCBB62X2/Q3225-91**** | 3.9 | 32.0 | 28.0 | 17.0 | 27.5 | 0.8 | HCBB62X2/Q3395-B1**** |
| 2.7 | 26.5 | 24.5 | 15.5 | 22.5 | 0.8 | HCBB62X2/Q3275-91**** | 4.7 | 32.0 | 28.0 | 17.0 | 27.5 | 0.8 | HCBB62X2/Q3475-B1**** |
| 3.3 | 26.5 | 29.5 | 14.5 | 22.5 | 0.8 | HCBB62X2/Q3335-91**** | 5.6 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | HCBB62X2/Q3565-B1**** |
| 3.9M | 26.5 | 29.5 | 14.5 | 22.5 | 0.8 | HCBB62X2/Q3395M91**** | 6.8 | 32.0 | 37.0 | 22.0 | 27.5 | 0.8 | HCBB62X2/Q3685-B1**** |
| 1.2 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | HCBB62X2/Q3125-B1**** | 8.2 | 32.0 | 37.0 | 22.0 | 27.5 | 0.8 | HCBB62X2/Q3825-B1**** |
| 1.5 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | HCBB62X2/Q3155-B1**** | | | | | | | |

Notes: (1) “-” means capacitance tolerance code, K=±10%, M=±20% ; “****” means lead form and packaging code (See table 1)
 (2)When the rated voltage is 275Va.c.,the digit 10~11 is P2.