

HCBB62X2

Metallized Polypropylene Film Interference Suppression Capacitor(Class X2, 310Va.c./275 Va.c., Miniature version)



Features

- Metallized polypropylene film
- Capable of withstanding over-voltage stress
- Excellent self-healing performance
- UL 94 V-0 compliant

Typical Applications

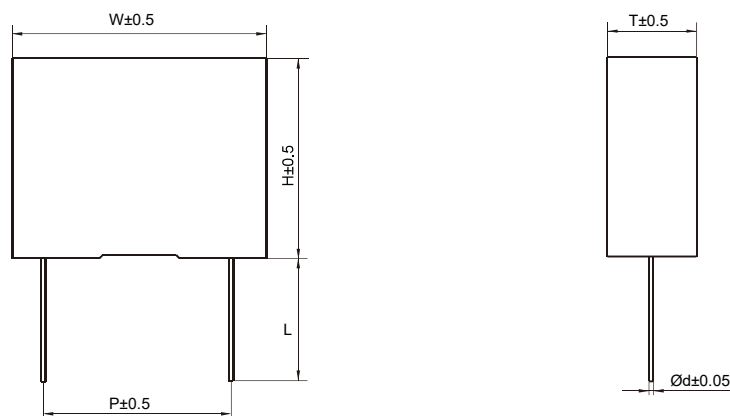
- For use in electromagnetic interference (EMI) suppression in across-the-line applications, Not suitable for series connection with the mains

Safety Approvals

	CQC	GB/T 6346.14	0.027μF - 8.2μF,310Va.c./275Va.c.,40/110/56B File No.: CQC21001289371
	ENEC-VDE	EN 60384-14 IEC 60384- 14	0.027μF - 8.2μF,310Va.c./275Va.c.,40/110/56B File No.: 125834
	UL/cUL	UL 60384-14 CSA E60384 - 1:14 CSA E60384 - 14:14	0.027μF - 8.2μF,310Va.c./275Va.c.,40/110/56B File No.: E311928

Notes: The above certificate No.is just a license No. Please refer to the certificates we supplied for detail information.

Outline Drawing



Notes: All product dimensions are in mm.
See the Outline Dimensions table for details.

Specifications

Reference standards		IEC 60384-14,GB/T 6346.14					
Rated voltage	U _R	310Va.c./275Va.c.(50Hz/60Hz)					
Permissible DC voltage	U _{DC}	560Vd.c. at T _{op} ≤85℃ 1.33%/℃ derating when 85℃<T _{op} ≤110℃					
Capacitance range	C _N	0.027μF~8.2μF					
Capacitance tolerance		±10%(K), ±20%(M)					
Dissipation factor	tanδ	0.027μF<C _N ≤0.47μF			≤20×10 ⁻⁴ (10kHz)		
		0.47μF<C _N ≤1.0μF			≤40×10 ⁻⁴ (10kHz)		
		1.0μF<C _N ≤8.2μF			≤30×10 ⁻⁴ (1kHz)		
Insulation resistance (20℃,100V,1min)	IR	C _N ≤0.33μF			IR≥15000MΩ		
		C _N >0.33μF			IR·C _N ≥5000s		
Climatic category/Passive flammability category		40/110/56/B					
Operating temperature range	T _{OP}	-40℃~+110℃					
Voltage proof	U _{t-t}	Between terminals			4.3UR(Vd.c.),2s		
	U _{t-c}	Between terminals and case			2120Va.c.,1min		
Pulse handling capability	Lead spacing	7.5mm	10mm	15mm	22.5mm	27.5mm	
	V/μs	500	400	300	200	100	
	"dV/dt" represents the maximum permissible voltage change per unit of time for non-sinusoidal voltages, expressed in V/μs						

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	2	X	2	/	Q	3	1	0	4	K	9	0	0	0	C	0	0	0	
Series code									Rated voltage		Rated capacitance		Capacitance tolerance	Pitch	Internal code			Lead form and packaging code					
									Q3=310Va.c. P2=275Va.c.					K=±10% M=±20%					See table 1				
											For example: 104=10×10 ⁴ pF =0.01μF				4=10mm 6=15mm 9=22.5mm B=27.5mm F=37.5mm M=52.5mm								

Table 1: Lead Form and Packaging Code

Digit 20		Digit 21		Digit 22		Digit 23	
Code	Explanation	Code	Explanation	Code	Explanation	Code	Explanation
A	Tape package ¹⁾	3	F=7.5mm	0	Straight	1	Taping lead space: P ₃ =12.7mm,H=18.0mm(Pitch=7.5mm)
		4	F=10mm			5	P ₃ =25.4mm,H=18.0mm (Pitch=10.0 or 15.0mm)
		6	F=15mm				
		7	F=22.5mm	1	Crimped	7	P ₃ =38mm,H=18.0mm (Pitch=22.5mm or 27.5mm)
		8	F=27.5mm				
C	Straight Lead (bulk) ²⁾	00	Standard lead length(18mm~28mm)		0	Standard lead length	
		35	Lead length 3.5mm ³⁾			Lead length tolerance±0.5mm	

Notes: 1) If the lead length is 4.5 mm, the code is C450, and so on.

2) For more details on Ammo-pack, please refer to the Overview of the Universal Capacitors.

3) Other lead form and packaging options are available upon customer request.

Outline Dimensions

Unit: mm

310Va.c./275Va.c.													
C _N (μF)	W	H	T	P	d	Ordering Information	C _N (μF)	W	H	T	P	d	Ordering Information
0.027	10.5	9.0	4.0	7.5	0.6	HCB62X2/Q3273+3010****	0.33	18.0	13.0	7.0	15.0	0.8	HCB62X2/Q3334+6010****
0.033	10.5	9.0	4.0	7.5	0.6	HCB62X2/Q3333+3010****	0.39	18.0	13.5	7.5	15.0	0.8	HCB62X2/Q3394+6010****
0.039	10.5	9.0	4.0	7.5	0.6	HCB62X2/Q3393+3010****	0.47	18.0	14.5	8.5	15.0	0.8	HCB62X2/Q3474+6010****
0.047	10.5	10.0	5.0	7.5	0.6	HCB62X2/Q3473+3010****	0.56	18.0	16.0	10.0	15.0	0.8	HCB62X2/Q3564+6010****
0.056	10.5	10.0	5.0	7.5	0.6	HCB62X2/Q3563+3010****	0.68	18.0	16.0	10.0	15.0	0.8	HCB62X2/Q3684+6010****
0.068	10.5	11.0	5.0	7.5	0.6	HCB62X2/Q3683+3010****	0.82	18.0	19.2	11.2	15.0	0.8	HCB62X2/Q3824+6010****
0.082	10.5	12.0	6.0	7.5	0.6	HCB62X2/Q3823+3010****	0.47	26.5	15.0	6.0	22.5	0.8	HCB62X2/Q3474+9010****
0.100	10.5	12.0	6.0	7.5	0.6	HCB62X2/Q3104+3010****	0.56	26.5	15.0	6.0	22.5	0.8	HCB62X2/Q3564+9010****
0.047	13.0	9.0	4.0	10.0	0.6	HCB62X2/Q3473+4010****	0.68	26.5	16.5	7.0	22.5	0.8	HCB62X2/Q3684+9010****
0.10	13.0	11.0	5.0	10.0	0.6	HCB62X2/Q3104+4010****	0.82	26.5	17.0	8.5	22.5	0.8	HCB62X2/Q3824+9010****
0.12	13.0	12.0	6.0	10.0	0.6	HCB62X2/Q3124+4010****	1.0	26.5	17.0	8.5	22.5	0.8	HCB62X2/Q3105+9010****
0.15	13.0	12.0	6.0	10.0	0.6	HCB62X2/Q3154+4010****	1.2	26.5	19.0	10.0	22.5	0.8	HCB62X2/Q3125+9010****
0.18	13.0	13.0	7.0	10.0	0.6	HCB62X2/Q3184+4010****	1.5	26.5	20.0	11.0	22.5	0.8	HCB62X2/Q3155+9010****
0.22	13.0	14.0	8.0	10.0	0.6	HCB62X2/Q3224+4010****	1.8	26.5	22.0	12.0	22.5	0.8	HCB62X2/Q3185+9010****
0.15	18.0	11.0	5.0	15.0	0.6	HCB62X2/Q3154+6010****	2.0	26.5	22.0	12.0	22.5	0.8	HCB62X2/Q3205+9010****
0.18	18.0	11.0	5.0	15.0	0.6	HCB62X2/Q3184+6010****	2.2	26.5	23.0	13.0	22.5	0.8	HCB62X2/Q3225+9010****
0.22	18.0	12.0	6.0	15.0	0.8	HCB62X2/Q3224+6010****	2.7	26.5	24.5	15.5	22.5	0.8	HCB62X2/Q3275+9010****
0.27	18.0	12.0	6.0	15.0	0.8	HCB62X2/Q3274+6010****	3.3	26.5	29.5	14.5	22.5	0.8	HCB62X2/Q3335+9010****

Notes: 1) "+"= Capacitance tolerance, K=±10%, M=±20%;

2) "****"= Lead form and packaging code(See table 1);

3) When the rated AC voltage is 275Va.c., the 10th to 11th digits shall be P2.

Outline Dimensions

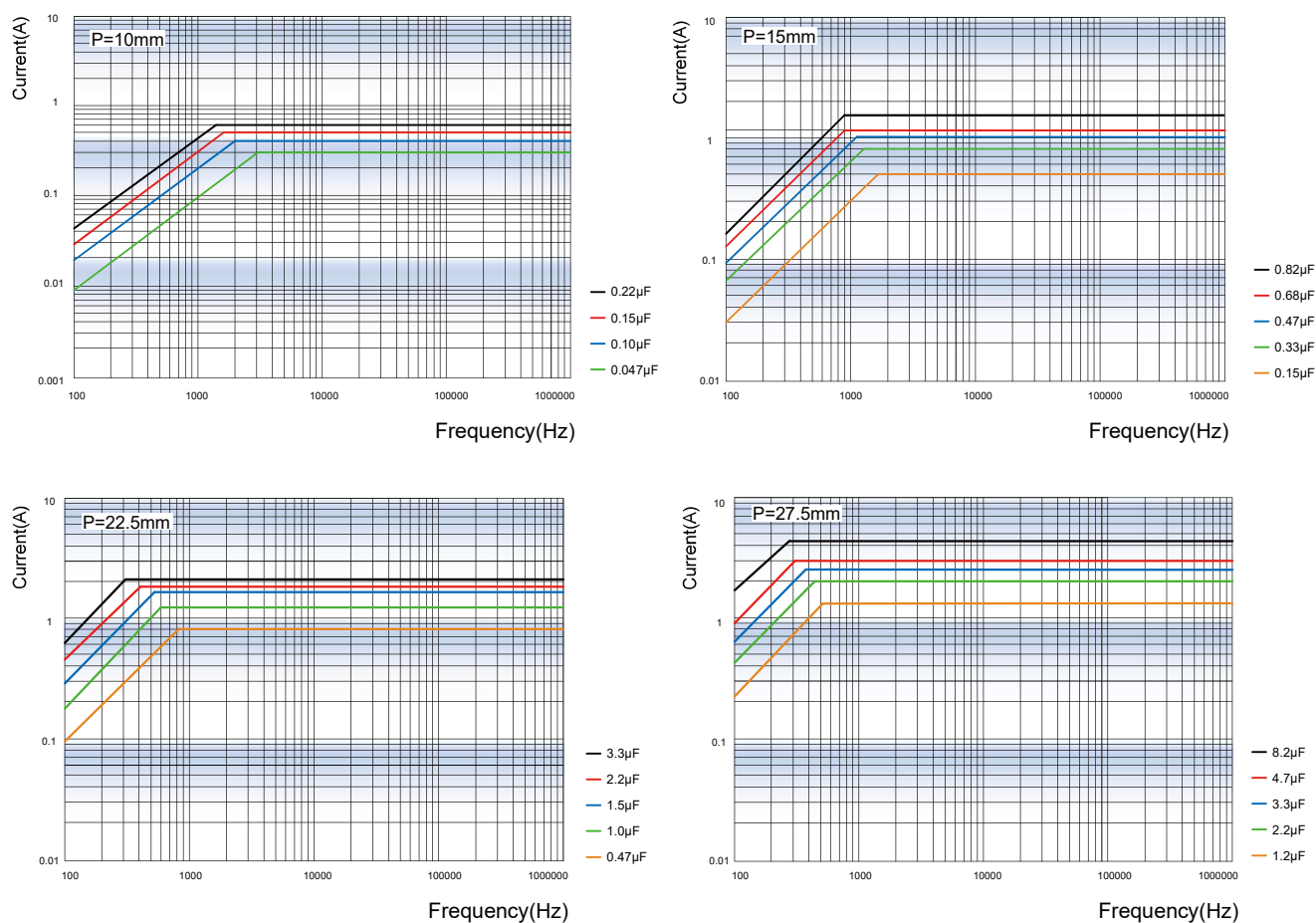
Unit: mm

310Va.c./275Va.c.													
C _N (μF)	W	H	T	P	d	Ordering Information	C _N (μF)	W	H	T	P	d	Ordering Information
3.9	26.5	29.5	14.5	22.5	0.8	HCB62X2/Q3395+9010****	3.3	32.0	24.5	15.0	27.5	0.8	HCB62X2/Q3335+B010****
1.2	32.0	18.0	9.0	27.5	0.8	HCB62X2/Q3125+B010****	3.9	32.0	28.0	18.0	27.5	0.8	HCB62X2/Q3395+B010****
1.5	32.0	18.0	9.0	27.5	0.8	HCB62X2/Q3155+B010****	4.7	32.0	28.0	18.0	27.5	0.8	HCB62X2/Q3475+B010****
1.8	32.0	20.0	11.0	27.5	0.8	HCB62X2/Q3185+B010****	5.6	32.0	33.0	18.0	27.5	0.8	HCB62X2/Q3565+B010****
2.2	32.0	22.0	13.0	27.5	0.8	HCB62X2/Q3225+B010****	6.8	32.0	37.0	22.0	27.5	0.8	HCB62X2/Q3685+B010****
2.7	32.0	25.0	13.0	27.5	0.8	HCB62X2/Q3275+B010****	8.2	32.0	37.0	22.0	27.5	0.8	HCB62X2/Q3825+B010****

Notes: 1) "+"= Capacitance tolerance, K=±10%, M=±20%;
 2) "****"= Lead form and packaging code(See table 1);
 3) When the rated AC voltage is 275 V a.c., the 10th to 11th digits shall be P2.

Characteristic Curve (Typical)

Permissible AC current I_{RMS} versus frequency f (for sinusoidal waveforms T_{OP}≤85°C)



Characteristic Curve (Typical)Impedance Z versus frequency f 