



SPECIFICATION FOR APPROVAL

File No.: Q/FRK 0.GS.E.C61-C15

Product Name	Metallized polypropylene film AC motor capacitor (Box-type)
Product Type	CBB61
Product Code	C61
Customer	
Customer Code	
Issue Date	2023-05

Xiamen Faratronic Co. Ltd.			Approved by Customer
Drafted	Checked	Approved	



Xiamen Faratronic Co. Ltd.

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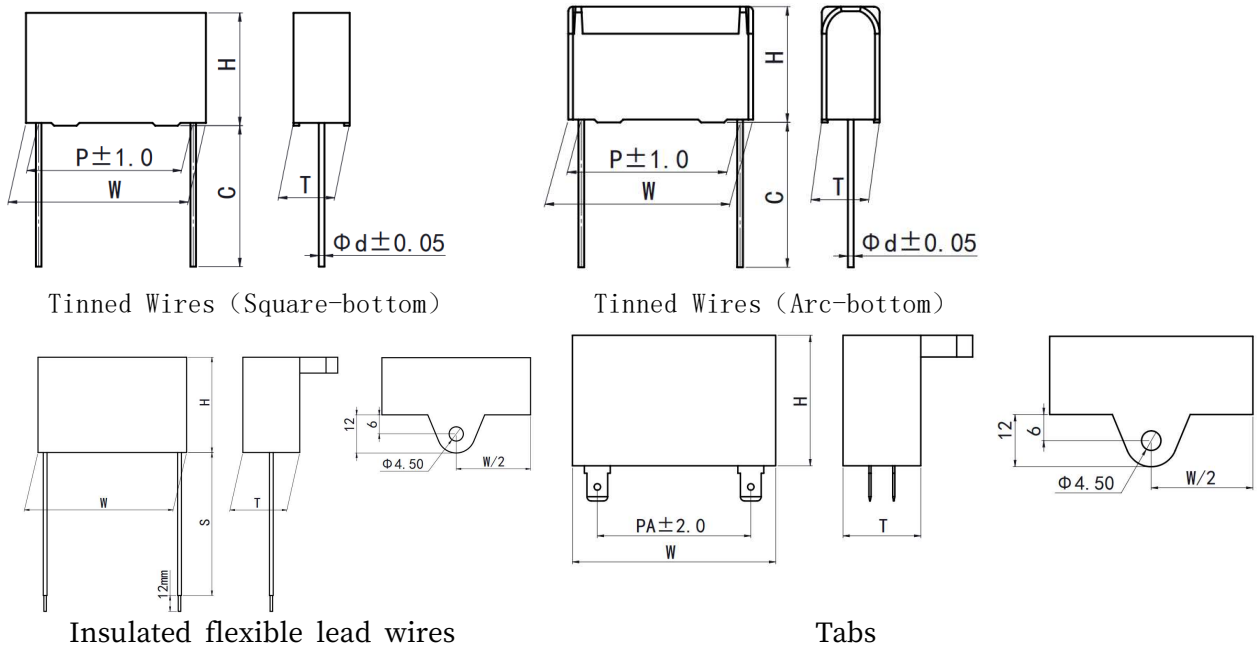
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Version history

Current version	Date	Author	Change description

Metallized polypropylene film AC motor capacitor (Box-type)
■ Outline Drawing

■ Features

- Widely applied to starting and running of AC single-phase motors at 50Hz/60Hz frequency power
- Self-healing property
- Extremely stable performance and reliability

■ Safety Approval

●		CQC	GB/T 3667.1-2016 A.C. motor capacitors (1) 0.1 μ F~9.5 μ F, 450Vac/500Vac Class C or 450Vac Class B, 50/60Hz, S0, SH, 40/70/21 or 40/85/21 Certificate No.: CQC02002001687 (2) 0.5 μ F~20 μ F, 250Vac, Class C, 50/60Hz, S0, SH, 40/85/21 Certificate No.: CQC08002024389 (3) 0.5 μ F~20 μ F, 350Vac, Class C, 50/60Hz, S0, SH, 40/85/21 Certificate No.: CQC08002024390
●		VDE	EN 60252-1:2011+A1:2013 A.C. motor capacitors (1) 0.1 μ F~9.5 μ F, 450Vac/500Vac Class C or 450Vac Class B, 50/60Hz, S0, SH, 40/70/21 or 40/85/21 Certificate No.: 40004094 (2) 0.5 μ F~20 μ F, 250Vac, Class C, 50/60Hz, S0, SH, 40/85/21 Certificate No.: 40023507 (3) 0.5 μ F~20 μ F, 300Vac/350Vac, Class C, 50/60Hz, S0, SH, 40/85/21 Certificate No.: 40023504
●		UL/CUL	UL 810 CSA, C22.2 No.190 (construction only) max.500Vac, 50/60Hz, max.90°C File No.: E256238, CCN:CZDS2/8



Specifications

Reference Standard	GB/T 3667.1 (IEC 60252-1)				
Rated Voltage	500Vac (50/60Hz)	450Vac (50/60Hz)	300/350Vac (50/60Hz)	250Vac (50/60Hz)	
Class of operation	Class C	Class B or Class C	Class C	Class C	
Capacitance Range	0.1μF~9.5μF	0.1μF~9.5μF	0.5μF~20μF	0.5μF~20μF	
Capacitance Tolerance	±5 %, ±10 %				
Class of safety protection	S0				
Climatic Category	40/70/21 or 40/85/21		40/85/21		
Voltage Proof	Between Terminals	1000Vac (2s)	900Vac(2s)	700Vac(2s)	500Vac(2s)
	Between Terminals And Case	3 000Vac(60s)			
Maximum permissible voltage	1.1U _N				
Maximum permissible current	1.3I _N				
Insulation Resistance(IR× C _N)	≥3 000s (20°C,100V,1min)				
Dissipation Factor	≤20×10 ⁻⁴ (1kHz, 20°C)				

Part number system

The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C														

Digit 1 to 3 Series code

C61=CBB61

Digit 4 to 5 AC rated voltage

H2=500V S2=450V R2=350V Q1=300V E2=250V

Digit 6 to 8 Rated capacitance value

For example : 105=10×10⁵ pF= 1.0μF

Digit 9 Capacitance tolerance

J=±5%,K=±10%

Digit 10 Pitch (for tinned wire)

9=22.5mm B=27.5mm D=32.5mm F=37.5mm

W of the Dimension (for tabs and insulated flexible lead wires)

1=32mm 2=37mm 3=42mm 4=47mm 5=57mm 6=67mm

Digit 11 Internal use

Digit 12 to 15 Terminals code

Table1 Terminals code

Digit 12		Digit 13		Digit 14		Digit 15	
Code	Terminal form	Code	Fixed style	Code	Length of lead wire	Code	Length tolerance
0	tinned wire	0	PCB			0	Standard length or tabs
3	One AMP187# per side	1	(tinned wire)	B	Lead length 5.0mm	1	Length tolerance ±0.5mm
4	Two AMP187# per side		Mounting ear	9	Lead length 3.9mm	2	Length tolerance ±0.4mm
7	One AMP250# per side		in the middle	8	8 inch	3	Length tolerance ±0.3mm
8	Two AMP250# per side		of case's top	0	Standard tinned wire length(5min)or standard insulated flexible wire length(100min) or tabs		
B	UL1015 insulated lead wire						



■ Dimensions (mm)

Tinned lead wire

500Vac(Class C)					
C _N (μF)	W±1	H±1	T±1	P	Part number
0.10	26.5	16.0	7.0	22.5	C61H2104-9000**
0.12	26.5	17.0	8.5	22.5	C61H2124-9000**
0.14	26.5	18.5	10.0	22.5	C61H2144-9000**
0.15	26.5	18.5	10.0	22.5	C61H2154-9000**
0.18	26.5	18.5	10.0	22.5	C61H2184-9000**
0.22	26.5	20.0	11.0	22.5	C61H2224-9000**
0.27	26.5	22.0	12.0	22.5	C61H2274-9000**
0.5	32.0	20.0	11.0	27.5	C61H2504-B000**
1.0	32.0	22.0	13.0	27.5	C61H2105-B000**
1.2	32.0	28.0	14.0	27.5	C61H2125-B000**
1.4	32.0	28.0	14.0	27.5	C61H2145-B000**
1.5	32.0	28.0	14.0	27.5	C61H2155-B000**
1.6	32.0	28.0	14.0	27.5	C61H2165-B000**
1.8	32.0	28.0	14.0	27.5	C61H2185-B000**
2.0	32.0	33.0	18.0	27.5	C61H2205-B000**
2.2	32.0	33.0	18.0	27.5	C61H2225-B000**
2.5	32.0	33.0	18.0	27.5	C61H2255-B000**
2.8	32.0	33.0	18.0	27.5	C61H2285-B000**
3.0	32.0	37.0	22.0	27.5	C61H2305-B000**
3.5	32.0	37.0	22.0	27.5	C61H2355-B000**
4.0	32.0	37.0	22.0	27.5	C61H2405-B000**
★1.0	36.0	22.0	11.0	32.5	C61H2105-D000**
1.2	36.0	23.0	13.0	32.5	C61H2125-D000**
1.4	36.0	24.5	14.0	32.5	C61H2145-D000**
1.5	36.0	27.0	14.0	32.5	C61H2155-D000**
1.6	36.0	27.0	14.0	32.5	C61H2165-D000**
1.8	36.0	29.0	14.0	32.5	C61H2185-D000**
2.0	36.0	29.0	14.0	32.5	C61H2205-D000**
2.2	36.0	28.0	18.0	32.5	C61H2225-D000**
2.5	36.0	28.0	18.0	32.5	C61H2255-D000**
2.8	36.0	33.0	18.0	32.5	C61H2285-D000**
3.0	36.0	33.0	18.0	32.5	C61H2305-D000**

500Vac(Class C)					
C _N (μF)	W±1	H±1	T±1	P	Part number
3.5	36.0	33.0	18.0	32.5	C61H2355-D000**
★4.0	36.0	37.0	22.0	32.5	C61H2405-D000**
★4.5	36.0	37.0	22.0	32.5	C61H2455-D000**
★5.0	36.0	37.0	22.0	32.5	C61H2505-D000**
★5.5	36.0	41.0	26.0	32.5	C61H2555-D000**
★6.0	36.0	41.0	26.0	32.5	C61H2605-D000**
★6.3	36.0	41.0	26.0	32.5	C61H2635-D000**
★6.5	36.0	41.0	26.0	32.5	C61H2655-D000**
★7.0	36.0	45.0	30.0	32.5	C61H2705-D000**
★7.5	36.0	45.0	30.0	32.5	C61H2755-D000**
★8.0	36.0	45.0	30.0	32.5	C61H2805-D000**
★8.5	36.0	45.0	30.0	32.5	C61H2855-D000**
2.0	42.0	28.0	14.0	37.5	C61H2205-F000**
2.2	42.0	28.0	14.0	37.5	C61H2225-F000**
2.5	41.0	30.0	16.0	37.5	C61H2255-F000**
2.8	41.0	30.0	16.0	37.5	C61H2285-F000**
3.0	41.0	32.0	17.0	37.5	C61H2305-F000**
3.5	41.0	32.0	17.0	37.5	C61H2355-F000**
4.0	41.0	33.5	18.5	37.5	C61H2405-F000**
4.5	41.0	37.0	22.0	37.5	C61H2455-F000**
5.0	41.0	37.0	22.0	37.5	C61H2505-F000**
5.5	41.0	37.0	22.0	37.5	C61H2555-F000**
6.0	41.0	37.0	22.0	37.5	C61H2605-F000**
6.3	41.0	41.0	26.0	37.5	C61H2635-F000**
6.5	41.0	41.0	26.0	37.5	C61H2655-F000**
7.0	41.0	41.0	26.0	37.5	C61H2705-F000**
7.5	41.0	41.0	26.0	37.5	C61H2755-F000**
8.0	42.0	45.0	30.0	37.5	C61H2805-F000**
8.5	42.0	45.0	30.0	37.5	C61H2855-F000**
9.0	42.0	45.0	30.0	37.5	C61H2905-F000**
9.5	42.0	45.0	30.0	37.5	C61H2955-F000**

- Notes: 1. “.” =capacitance tolerance code K=±10%,J=±5%
 2. “**” =terminal form code (refer to table 1)
 3. When P=22.5/27.5mm,d=0.8±0.05mm; when P>27.5mm,d=1.0±0.05mm.
 4. “★” = Arc-bottom of the outer case.



■ Dimensions (mm)
 Tabs or Insulated flexible lead wires

500Vac(Class C)					
C _N (μF)	W±1	H±1	T±1	PA	Part number
0.5	32.0	20.0	11.0	20.0	C61H2504-10**00
1.0	32.0	22.0	13.0	20.0	C61H2105-10**00
1.2	32.0	28.0	14.0	20.0	C61H2125-10**00
1.4	32.0	28.0	14.0	20.0	C61H2145-10**00
1.5	32.0	28.0	14.0	20.0	C61H2155-10**00
1.6	32.0	28.0	14.0	20.0	C61H2165-10**00
1.8	32.0	30.0	16.0	20.0	C61H2185-10**00
2.0	32.0	33.0	18.0	20.0	C61H2205-10**00
2.2	32.0	33.0	18.0	20.0	C61H2225-10**00
2.5	32.0	33.0	18.0	20.0	C61H2255-10**00
2.8	32.0	33.0	18.0	20.0	C61H2285-10**00
3.0	32.0	37.0	22.0	20.0	C61H2305-10**00
3.5	32.0	37.0	22.0	20.0	C61H2355-10**00
4.0	32.0	37.0	22.0	20.0	C61H2405-10**00
1.0	37.0	22.0	13.0	25.0	C61H2105-20**00
1.2	37.0	22.0	13.0	25.0	C61H2125-20**00
1.4	37.0	28.0	14.0	25.0	C61H2145-20**00
1.5	37.0	28.0	14.0	25.0	C61H2155-20**00
1.6	37.0	28.0	14.0	25.0	C61H2165-20**00
1.8	37.0	28.0	14.0	25.0	C61H2185-20**00
2.0	37.0	28.0	16.0	25.0	C61H2205-20**00
2.2	37.0	28.0	16.0	25.0	C61H2225-20**00
2.5	37.0	30.0	18.0	25.0	C61H2255-20**00
2.8	37.0	30.0	18.0	25.0	C61H2285-20**00
3.0	37.0	33.0	18.0	25.0	C61H2305-20**00
3.5	37.0	33.0	18.0	25.0	C61H2355-20**00
4.0	37.0	37.0	22.0	25.0	C61H2405-20**00

500Vac(Class C)					
C _N (μF)	W±1	H±1	T±1	PA	Part number
4.5	37.0	37.0	22.0	25.0	C61H2455-20**00
5.0	37.0	37.0	22.0	25.0	C61H2505-20**00
5.5	37.0	41.0	26.0	25.0	C61H2555-20**00
6.0	37.0	41.0	26.0	25.0	C61H2605-20**00
6.3	37.0	41.0	26.0	25.0	C61H2635-20**00
6.5	37.0	41.0	26.0	25.0	C61H2655-20**00
7.0	37.0	45.0	30.0	25.0	C61H2705-20**00
7.5	37.0	45.0	30.0	25.0	C61H2755-20**00
8.0	37.0	45.0	30.0	25.0	C61H2805-20**00
8.5	37.0	45.0	30.0	25.0	C61H2855-20**00
2.0	47.0	27.0	15.0	35.0	C61H2205-40**00
2.5	47.0	27.0	15.0	35.0	C61H2255-40**00
3.0	47.0	28.0	16.0	35.0	C61H2305-40**00
3.5	47.0	30.0	18.0	35.0	C61H2355-40**00
4.0	47.0	30.0	18.0	35.0	C61H2405-40**00
4.5	47.0	33.0	19.0	35.0	C61H2455-40**00
5.0	47.0	33.0	21.0	35.0	C61H2505-40**00
5.5	47.0	34.0	22.0	35.0	C61H2555-40**00
6.0	47.0	36.0	24.0	35.0	C61H2605-40**00
6.5	47.0	36.0	24.0	35.0	C61H2655-40**00
7.0	47.0	36.0	24.0	35.0	C61H2705-40**00
7.5	47.0	38.0	26.0	35.0	C61H2755-40**00
8.0	47.0	40.0	28.0	35.0	C61H2805-40**00
8.5	47.0	40.0	28.0	35.0	C61H2855-40**00
9.0	47.0	40.0	28.0	35.0	C61H2905-40**00
9.5	47.0	44.0	30.0	35.0	C61H2955-40**00

- Notes: 1. “.” =capacitance tolerance code K=±10%,J=±5%
 2. “**” =terminal form code (refer to table 1)
 3. Dimension of tab please refer to outline drawing.
 4. When W=37mm, insulated flexible lead gauge =AWG20; When W>37, insulated flexible lead gauge =AWG18.



■ Dimensions (mm)

Tinned lead wire					
450Vac(Class B)					
C _N (μF)	W±1	H±1	T±1	P	Part number
1.0	32.0	22.0	13.0	27.5	C61S2105-BB00**
1.2	32.0	25.0	13.0	27.5	C61S2125-BB00**
1.4	32.0	25.0	13.0	27.5	C61S2145-BB00**
1.5	32.0	24.5	15.0	27.5	C61S2155-BB00**
★1.6	32.0	26.0	14.0	27.5	C61S2165-BB00**
★1.8	32.0	27.0	15.0	27.5	C61S2185-BB00**
★2.0	32.0	27.0	16.0	27.5	C61S2205-BB00**
★2.5	32.0	28.0	18.0	27.5	C61S2255-BB00**
★2.8	32.0	30.0	18.0	27.5	C61S2285-BB00**
★3.0	32.0	30.0	20.0	27.5	C61S2305-BB00**
★3.5	32.0	31.0	21.0	27.5	C61S2355-BB00**
★4.0	32.0	34.0	22.0	27.5	C61S2405-BB00**
1.0	36.0	22.5	12.0	32.5	C61S2105-DB00**
1.2	36.0	23.0	13.0	32.5	C61S2125-DB00**
1.4	36.0	23.0	13.0	32.5	C61S2145-DB00**
1.5	36.0	24.5	14.0	32.5	C61S2155-DB00**
1.8	36.0	26.0	14.0	32.5	C61S2185-DB00**
2.0	36.0	27.0	14.0	32.5	C61S2205-DB00**
★2.5	36.0	28.0	16.0	32.5	C61S2255-DB00**
2.8	36.0	28.0	18.0	32.5	C61S2285-DB00**
★3.0	36.0	30.5	18.8	32.5	C61S2305-DB00**
★3.5	36.0	30.5	18.8	32.5	C61S2355-DB00**
4.0	36.0	34.0	22.0	32.5	C61S2405-DB00**
4.5	36.0	34.0	22.0	32.5	C61S2455-DB00**
★5.0	36.0	36.0	24.0	32.5	C61S2505-DB00**
★5.5	36.0	38.0	22.0	32.5	C61S2555-DB00**
★6.0	36.0	38.0	24.0	32.5	C61S2605-DB00**
★6.3	36.0	38.0	24.0	32.5	C61S2635-DB00**
★6.5	36.0	38.0	26.0	32.5	C61S2655-DB00**
★7.0	36.0	39.0	27.0	32.5	C61S2705-DB00**

Tabs or Insulated flexible lead wires					
450Vac(Class B)					
C _N (μF)	W±1	H±1	T±1	PA	Part number
1.0	37.0	22.0	12.0	25.0	C61S2105-2B**00
1.2	37.0	23.0	12.0	25.0	C61S2125-2B**00
1.4	37.0	24.0	14.0	25.0	C61S2145-2B**00
1.5	37.0	24.0	14.0	25.0	C61S2155-2B**00
1.8	37.0	26.0	14.0	25.0	C61S2185-2B**00
2.0	37.0	28.0	14.0	25.0	C61S2205-2B**00
2.5	37.0	26.0	18.0	25.0	C61S2255-2B**00
2.8	37.0	30.0	18.0	25.0	C61S2285-2B**00
3.0	37.0	30.0	18.0	25.0	C61S2305-2B**00
4.0	37.0	32.0	20.0	25.0	C61S2405-2B**00
4.5	37.0	34.0	22.0	25.0	C61S2455-2B**00
5.0	37.0	36.0	24.0	25.0	C61S2505-2B**00
5.5	37.0	36.0	24.0	25.0	C61S2555-2B**00
6.0	37.0	38.0	24.0	25.0	C61S2605-2B**00
2.5	47.0	25.0	15.0	35.0	C61S2255-4B**00
3.0	47.0	27.0	15.0	35.0	C61S2305-4B**00
3.5	47.0	28.0	16.0	35.0	C61S2355-4B**00
4.0	47.0	30.0	18.0	35.0	C61S2405-4B**00
4.5	47.0	31.0	19.0	35.0	C61S2455-4B**00
5.0	47.0	30.0	20.0	35.0	C61S2505-4B**00
5.5	47.0	33.0	21.0	35.0	C61S2555-4B**00
6.0	47.0	34.0	22.0	35.0	C61S2605-4B**00
6.5	47.0	34.0	22.0	35.0	C61S2655-4B**00
7.0	47.0	36.0	24.0	35.0	C61S2705-4B**00
7.5	47.0	36.0	24.0	35.0	C61S2755-4B**00
8.0	47.0	36.0	24.0	35.0	C61S2805-4B**00
8.5	47.0	38.0	26.0	35.0	C61S2855-4B**00
9.0	47.0	38.0	26.0	35.0	C61S2905-4B**00
9.5	47.0	40.0	28.0	35.0	C61S2955-4B**00

- Notes: 1. "-" =capacitance tolerance code K=±10%,J=±5%
 2. "**" =terminal form code (refer to table 1)
 3. When P=22.5/27.5mm,d=0.8±0.05mm; when P>27.5mm,d=1.0±0.05mm.
 4. Dimension of tab please refer to outline drawing.
 5. When W=37mm, insulated flexible lead gauge =AWG20; When P>37, insulated flexible lead gauge =AWG18.
 6. "★" = Arc-bottom of the outer case.



■ Dimensions (mm)
Tinned lead wire

450Vac(Class C)					
C _N (μF)	W±1	H±1	T±1	P	Part number
0.10	26.5	16.0	7.0	22.5	C61S2104-9000**
0.12	26.5	17.0	8.5	22.5	C61S2124-9000**
0.14	26.5	18.5	10.0	22.5	C61S2144-9000**
0.15	26.5	18.5	10.0	22.5	C61S2154-9000**
0.18	26.5	18.5	10.0	22.5	C61S2184-9000**
0.22	26.5	20.0	11.0	22.5	C61S2224-9000**
0.27	26.5	22.0	12.0	22.5	C61S2274-9000**
0.5	32.0	20.0	11.0	27.5	C61S2504-BS00**
★ 1.0	32.0	22.0	11.0	27.5	C61S2105-BS00**
1.2	32.0	22.0	13.0	27.5	C61S2125-BS00**
1.4	32.0	25.0	13.0	27.5	C61S2145-BS00**
1.5	32.0	25.0	13.0	27.5	C61S2155-BS00**
1.6	32.0	25.0	13.0	27.5	C61S2165-BS00**
1.8	32.0	28.0	14.0	27.5	C61S2185-BS00**
2.0	32.0	28.0	14.0	27.5	C61S2205-BS00**
2.2	32.0	28.0	14.0	27.5	C61S2225-BS00**
2.5	32.0	28.0	17.0	27.5	C61S2255-BS00**
2.8	32.0	28.0	17.0	27.5	C61S2285-BS00**
3.0	32.0	30.0	18.0	27.5	C61S2305-BS00**
3.5	32.0	33.0	18.0	27.5	C61S2355-BS00**
4.0	32.0	32.0	20.0	27.5	C61S2405-BS00**
★ 1.0	36.0	20.0	10.0	32.5	C61S2105-DS00**
★ 1.2	36.0	22.0	11.0	32.5	C61S2125-DS00**
★ 1.4	36.0	22.0	11.0	32.5	C61S2145-DS00**
★ 1.5	36.0	22.0	11.0	32.5	C61S2155-DS00**
1.6	36.0	23.0	13.0	32.5	C61S2165-DS00**
1.8	36.0	23.0	13.0	32.5	C61S2185-DS00**
2.0	36.0	23.0	13.0	32.5	C61S2205-DS00**
2.2	36.0	27.0	14.0	32.5	C61S2225-DS00**
2.5	36.0	27.0	14.0	32.5	C61S2255-DS00**
2.8	36.0	29.0	14.0	32.5	C61S2285-DS00**
3.0	36.0	29.0	14.0	32.5	C61S2305-DS00**

450Vac(Class C)					
C _N (μF)	W±1	H±1	T±1	P	Part number
3.5	36.0	28.0	18.0	32.5	C61S2355-DS00**
★ 4.0	36.0	30.5	18.8	32.5	C61S2405-DS00**
4.5	36.0	33.0	18.0	32.5	C61S2455-DS00**
★ 5.0	36.0	32.0	20.0	32.5	C61S2505-DS00**
5.5	36.0	34.0	20.0	32.5	C61S2555-DS00**
6.0	36.0	34.0	22.0	32.5	C61S2605-DS00**
★ 6.3	36.0	36.0	22.0	32.5	C61S2635-DS00**
★ 6.5	36.0	36.0	22.0	32.5	C61S2655-DS00**
★ 7.0	36.0	36.0	24.0	32.5	C61S2705-DS00**
★ 7.5	36.0	38.0	24.0	32.5	C61S2755-DS00**
★ 8.0	36.0	38.0	26.0	32.5	C61S2805-DS00**
★ 8.5	36.0	38.0	26.0	32.5	C61S2855-DS00**
2.0	41.0	24.0	13.0	37.5	C61S2205-FS00**
2.2	41.0	24.0	13.0	37.5	C61S2225-FS00**
2.5	41.0	26.0	15.0	37.5	C61S2255-FS00**
2.8	41.0	26.0	15.0	37.5	C61S2285-FS00**
3.0	41.0	26.0	15.0	37.5	C61S2305-FS00**
★ 3.5	42.0	28.0	14.0	37.5	C61S2355-FS00**
4.0	41.0	30.0	16.0	37.5	C61S2405-FS00**
4.5	41.0	32.0	17.0	37.5	C61S2455-FS00**
5.0	41.0	30.5	18.5	37.5	C61S2505-FS00**
5.5	41.0	33.5	18.5	37.5	C61S2555-FS00**
6.0	41.0	33.5	18.5	37.5	C61S2605-FS00**
★ 6.3	41.0	34.0	20.0	37.5	C61S2635-FS00**
★ 6.5	41.0	34.0	20.0	37.5	C61S2655-FS00**
7.0	41.0	37.0	22.0	37.5	C61S2705-FS00**
7.5	41.0	37.0	22.0	37.5	C61S2755-FS00**
8.0	41.0	37.0	22.0	37.5	C61S2805-FS00**
8.5	42.0	36.0	23.0	37.5	C61S2855-FS00**
9.0	41.0	37.5	27.5	37.5	C61S2905-FS00**
★ 9.5	41.0	38.0	26.0	37.5	C61S2955-FS00**

- Notes: 1. “-” =capacitance tolerance code K=±10%,J=±5%
 2. “**” =terminal form code (refer to table 1)
 3. When P=22.5/27.5mm,d=0.8±0.05mm; when P>27.5mm,d=1.0±0.05mm.
 4. “★” = Arc-bottom of the outer case.



■ Dimensions (mm)

 Tabs or Insulated flexible lead wires

450Vac(Class C)					
C _N (μF)	W±1	H±1	T±1	PA	Part number
0.5	32.0	20.0	11.0	20.0	C61S2504-1S**00
1.0	32.0	26.0	14.0	20.0	C61S2105-1S**00
1.2	32.0	28.0	14.0	20.0	C61S2125-1S**00
1.4	32.0	28.0	14.0	20.0	C61S2145-1S**00
1.5	32.0	33.0	18.0	20.0	C61S2155-1S**00
1.6	32.0	33.0	18.0	20.0	C61S2165-1S**00
1.8	32.0	33.0	18.0	20.0	C61S2185-1S**00
2.0	32.0	33.0	18.0	20.0	C61S2205-1S**00
2.2	32.0	33.0	18.0	20.0	C61S2225-1S**00
2.5	32.0	33.0	18.0	20.0	C61S2255-1S**00
2.8	32.0	37.0	22.0	20.0	C61S2285-1S**00
3.0	32.0	37.0	22.0	20.0	C61S2305-1S**00
3.5	32.0	37.0	22.0	20.0	C61S2355-1S**00
4.0	32.0	40.0	24.0	20.0	C61S2405-1S**00
1.0	37.0	20.0	11.0	25.0	C61S2105-2S**00
1.2	37.0	22.0	13.0	25.0	C61S2125-2S**00
1.4	37.0	22.0	13.0	25.0	C61S2145-2S**00
1.5	37.0	22.0	13.0	25.0	C61S2155-2S**00
1.6	37.0	22.0	13.0	25.0	C61S2165-2S**00
1.8	37.0	24.0	14.0	25.0	C61S2185-2S**00
2.0	37.0	24.0	14.0	25.0	C61S2205-2S**00
2.2	37.0	28.0	14.0	25.0	C61S2225-2S**00
2.5	37.0	28.0	14.0	25.0	C61S2255-2S**00
2.8	37.0	28.0	16.0	25.0	C61S2285-2S**00
3.0	37.0	28.0	16.0	25.0	C61S2305-2S**00
3.5	37.0	30.0	18.0	25.0	C61S2355-2S**00
4.0	37.0	30.0	18.0	25.0	C61S2405-2S**00

450Vac(Class C)					
C _N (μF)	W±1	H±1	T±1	PA	Part number
4.5	37.0	32.0	20.0	25.0	C61S2455-2S**00
5.0	37.0	32.0	20.0	25.0	C61S2505-2S**00
5.5	37.0	34.0	22.0	25.0	C61S2555-2S**00
6.0	37.0	34.0	22.0	25.0	C61S2605-2S**00
6.3	37.0	34.0	24.0	25.0	C61S2635-2S**00
6.5	37.0	36.0	24.0	25.0	C61S2655-2S**00
7.0	37.0	38.0	24.0	25.0	C61S2705-2S**00
7.5	37.0	38.0	26.0	25.0	C61S2755-2S**00
8.0	37.0	38.0	26.0	25.0	C61S2805-2S**00
8.5	37.0	38.0	26.0	25.0	C61S2855-2S**00
2.0	47.0	24.0	14.0	35.0	C61S2205-4S**00
2.5	47.0	24.0	14.0	35.0	C61S2255-4S**00
3.0	47.0	27.0	15.0	35.0	C61S2305-4S**00
3.5	47.0	27.0	15.0	35.0	C61S2355-4S**00
4.0	47.0	28.0	16.0	35.0	C61S2405-4S**00
4.5	47.0	29.0	17.0	35.0	C61S2455-4S**00
5.0	47.0	30.0	18.0	35.0	C61S2505-4S**00
5.5	47.0	30.0	18.0	35.0	C61S2555-4S**00
6.0	47.0	33.0	19.0	35.0	C61S2605-4S**00
6.5	47.0	33.0	19.0	35.0	C61S2655-4S**00
7.0	47.0	33.0	21.0	35.0	C61S2705-4S**00
7.5	47.0	34.0	22.0	35.0	C61S2755-4S**00
8.0	47.0	34.0	22.0	35.0	C61S2805-4S**00
8.5	47.0	36.0	24.0	35.0	C61S2855-4S**00
9.0	47.0	36.0	24.0	35.0	C61S2905-4S**00
9.5	47.0	36.0	24.0	35.0	C61S2955-4S**00

- Notes: 1. “-” =capacitance tolerance code K=±10%,J=±5%
 2. “**” =terminal form code (refer to table 1)
 3. Dimension of tab please refer to outline drawing.
 4. When W=37mm, insulated flexible lead gauge =AWG20; When W>37, insulated flexible lead gauge =AWG18.



■ Dimensions (mm)

Tinned lead wire					
300Vac/350Vac (Class C) #					
C _N (μF)	W±1	H±1	T±1	P	Part number
0.5	32.0	17.0	8.0	27.5	C61R2504-B000**
0.82	32.0	18.0	9.0	27.5	C61R2824-B000**
1.0	32.0	20.0	11.0	27.5	C61R2105-B000**
1.5	32.0	22.0	13.0	27.5	C61R2155-B000**
2.0	32.0	24.5	15.0	27.5	C61R2205-B000**
2.5	32.0	28.0	14.0	27.5	C61R2255-B000**
3.0	32.0	28.0	17.0	27.5	C61R2305-B000**
3.5	32.0	28.0	17.0	27.5	C61R2355-B000**
★ 4.0	32.0	33.0	20.0	27.5	C61R2405-B000**
★ 4.5	32.0	33.0	20.0	27.5	C61R2455-B000**
★ 5.0	32.0	33.0	20.0	27.5	C61R2505-B000**
★ 1.0	36.0	20.0	10.0	32.5	C61R2105-D000**
1.5	36.0	23.0	13.0	32.5	C61R2155-D000**
2.0	36.0	27.0	14.0	32.5	C61R2205-D000**
2.5	36.0	27.0	14.0	32.5	C61R2255-D000**
2.8	36.0	28.0	18.0	32.5	C61R2285-D000**
3.0	36.0	28.0	18.0	32.5	C61R2305-D000**
3.3	36.0	28.0	18.0	32.5	C61R2335-D000**
★ 3.5	36.0	30.5	18.8	32.5	C61R2355-D000**
★ 4.0	36.0	30.5	18.8	32.5	C61R2405-D000**
4.5	36.0	33.0	18.0	32.5	C61R2455-D000**
★ 5.0	36.0	33.0	20.0	32.5	C61R2505-D000**
★ 5.5	36.0	33.0	20.0	32.5	C61R2555-D000**
★ 6.0	36.0	37.0	22.0	32.5	C61R2605-D000**
★ 6.5	36.0	37.0	22.0	32.5	C61R2655-D000**
★ 7.0	36.0	38.0	24.0	32.5	C61R2705-D000**
★ 7.5	36.0	38.0	24.0	32.5	C61R2755-D000**
★ 8.0	36.0	41.0	26.0	32.5	C61R2805-D000**
★ 9.0	36.0	41.0	26.0	32.5	C61R2905-D000**

Tabs or Insulated flexible lead wires					
300Vac/350Vac (Class C) #					
C _N (μF)	W±1	H±1	T±1	PA	Part number
1.0	37.0	21.0	11.0	25.0	C61R2105-20****
1.5	37.0	23.0	13.0	25.0	C61R2155-20****
2.0	37.0	28.0	14.0	25.0	C61R2205-20****
2.5	37.0	28.0	14.0	25.0	C61R2255-20****
3.0	37.0	30.0	18.0	25.0	C61R2305-20****
3.5	37.0	30.0	18.0	25.0	C61R2355-20****
4.0	37.0	30.0	18.0	25.0	C61R2405-20****
4.5	37.0	33.0	20.0	25.0	C61R2455-20****
5.0	37.0	33.0	20.0	25.0	C61R2505-20****
5.5	37.0	37.0	22.0	25.0	C61R2555-20****
6.0	37.0	37.0	22.0	25.0	C61R2605-20****
6.5	37.0	37.0	22.0	25.0	C61R2655-20****
7.0	37.0	38.0	24.0	25.0	C61R2705-20****
7.5	37.0	38.0	24.0	25.0	C61R2755-20****
8.0	37.0	41.0	26.0	25.0	C61R2805-20****
9.0	37.0	41.0	26.0	25.0	C61R2905-20****
3.5	47.0	28.0	16.0	35.0	C61R2355-40****
4.0	47.0	28.0	16.0	35.0	C61R2405-40****
4.5	47.0	30.0	18.0	35.0	C61R2455-40****
5.0	47.0	30.0	18.0	35.0	C61R2505-40****
5.5	47.0	32.0	18.0	35.0	C61R2555-40****
6.0	47.0	34.0	18.0	35.0	C61R2605-40****
6.5	47.0	34.0	20.0	35.0	C61R2655-40****
7.0	47.0	34.0	20.0	35.0	C61R2705-40****
7.5	47.0	34.0	22.0	35.0	C61R2755-40****
8.0	47.0	36.0	24.0	35.0	C61R2805-40****
9.0	47.0	36.0	24.0	35.0	C61R2905-40****
10.0	47.0	38.0	26.0	35.0	C61R2106-40****
11.0	47.0	38.0	26.0	35.0	C61R2116-40****
12.0	47.0	40.0	28.0	35.0	C61R2126-40****
12.5	47.0	40.0	28.0	35.0	C61R212E-40****
13.0	47.0	40.0	28.0	35.0	C61R2136-40****
14.0	47.0	44.0	30.0	35.0	C61R2146-40****
15.0	47.0	44.0	30.0	35.0	C61R2156-40****
17.5	47.0	46.0	32.0	35.0	C61R217E-40****
15.0	57.0	40.0	28.0	45.0	C61R2156-50****
17.5	57.0	44.0	30.0	45.0	C61R217E-50****
20.0	57.0	44.0	30.0	45.0	C61R2206-50****
20.0	67.0	42.0	28.0	55.0	C61R2206-60****

- Notes: 1. “.” =capacitance tolerance code K=±10%,J=±5%
 2. “***” =terminal form code (refer to table 1)
 3. “#” when the rated voltage is 300Vac,the digit 4~5 is Q1.
 4. When P=22.5/27.5mm,d=0.8±0.05mm; when P>27.5mm,d=1.0±0.05mm.
 5 Dimension of tab please refer to outline drawing.
 6. When W=37mm, insulated flexible lead gauge =AWG20; When W>37mm, insulated flexible lead gauge =AWG18.
 7. “★” = Arc-bottom of the outer case.



■ Dimensions (mm)

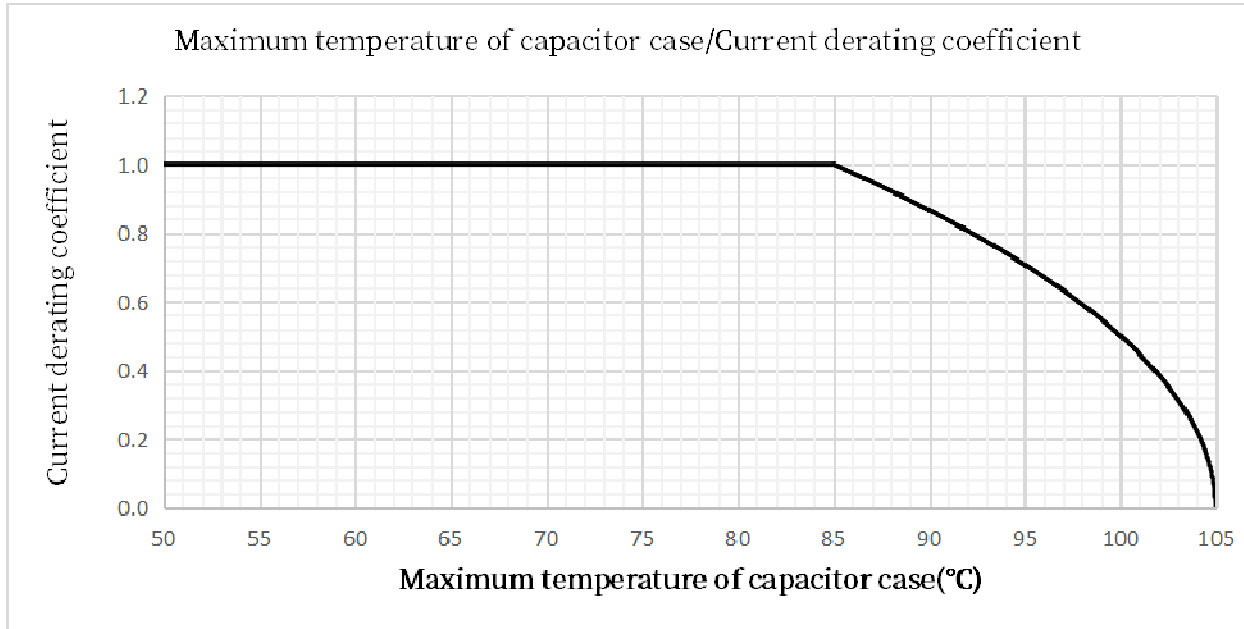
Tinned lead wire					
250Vac(Class C)					
C _N (μF)	W±1	H±1	T±1	P	Part number
★0.5	32.0	16.0	7.0	27.5	C61E2504-B000**
0.82	32.0	17.0	8.0	27.5	C61E2824-B000**
1.0	32.0	18.0	9.0	27.5	C61E2105-B000**
1.5	32.0	20.0	11.0	27.5	C61E2155-B000**
2.0	32.0	20.0	11.0	27.5	C61E2205-B000**
2.5	32.0	22.0	13.0	27.5	C61E2255-B000**
3.0	32.0	24.5	15.0	27.5	C61E2305-B000**
3.5	32.0	24.5	15.0	27.5	C61E2355-B000**
4.0	32.0	28.0	17.0	27.5	C61E2405-B000**
4.5	32.0	28.0	17.0	27.5	C61E2455-B000**
5.0	32.0	28.0	17.0	27.5	C61E2505-B000**
★1.0	36.0	20.0	10.0	32.5	C61E2105-D000**
★1.5	36.0	20.0	10.0	32.5	C61E2155-D000**
2.0	36.0	23.0	13.0	32.5	C61E2205-D000**
2.5	36.0	23.0	13.0	32.5	C61E2255-D000**
2.8	36.0	23.0	13.0	32.5	C61E2285-D000**
3.0	36.0	27.0	14.0	32.5	C61E2305-D000**
3.3	36.0	27.0	14.0	32.5	C61E2335-D000**
3.5	36.0	27.0	14.0	32.5	C61E2355-D000**
4.0	36.0	27.0	14.0	32.5	C61E2405-D000**
★4.5	36.0	30.5	18.8	32.5	C61E2455-D000**
★5.0	36.0	30.5	18.8	32.5	C61E2505-D000**
★5.5	36.0	30.5	18.8	32.5	C61E2555-D000**
★6.0	36.0	30.5	18.8	32.5	C61E2605-D000**
6.5	36.0	33.0	18.0	32.5	C61E2655-D000**
7.0	36.0	33.0	18.0	32.5	C61E2705-D000**
★7.5	36.0	36.0	20.0	32.5	C61E2755-D000**
★8.0	36.0	36.0	20.0	32.5	C61E2805-D000**
★9.0	36.0	36.0	20.0	32.5	C61E2905-D000**

Tabs or Insulated flexible lead wires					
250Vac(Class C)					
C _N (μF)	W±1	H±1	T±1	PA	Part number
1.0	37.0	20.0	10.0	25.0	C61E2105-20****
1.5	37.0	20.0	10.0	25.0	C61E2155-20****
2.0	37.0	23.0	13.0	25.0	C61E2205-20****
2.5	37.0	23.0	13.0	25.0	C61E2255-20****
3.0	37.0	28.0	14.0	25.0	C61E2305-20****
3.5	37.0	28.0	14.0	25.0	C61E2355-20****
4.0	37.0	28.0	14.0	25.0	C61E2405-20****
4.5	37.0	30.0	18.0	25.0	C61E2455-20****
5.0	37.0	30.0	18.0	25.0	C61E2505-20****
5.5	37.0	30.0	18.0	25.0	C61E2555-20****
6.0	37.0	30.0	18.0	25.0	C61E2605-20****
6.5	37.0	33.0	18.0	25.0	C61E2655-20****
7.0	37.0	33.0	18.0	25.0	C61E2705-20****
7.5	37.0	36.0	20.0	25.0	C61E2755-20****
8.0	37.0	36.0	20.0	25.0	C61E2805-20****
9.0	37.0	36.0	20.0	25.0	C61E2905-20****
3.5	47.0	26.0	14.0	35.0	C61E2355-40****
4.0	47.0	26.0	14.0	35.0	C61E2405-40****
4.5	47.0	26.0	14.0	35.0	C61E2455-40****
5.0	47.0	28.0	16.0	35.0	C61E2505-40****
5.5	47.0	28.0	16.0	35.0	C61E2555-40****
6.0	47.0	28.0	16.0	35.0	C61E2605-40****
6.5	47.0	30.0	18.0	35.0	C61E2655-40****
7.0	47.0	30.0	18.0	35.0	C61E2705-40****
7.5	47.0	30.0	18.0	35.0	C61E2755-40****
8.0	47.0	30.0	18.0	35.0	C61E2805-40****
9.0	47.0	34.0	18.0	35.0	C61E2905-40****
10.0	47.0	34.0	20.0	35.0	C61E2106-40****
11.0	47.0	34.0	22.0	35.0	C61E2116-40****
12.0	47.0	34.0	22.0	35.0	C61E2126-40****
12.5	47.0	36.0	24.0	35.0	C61E212E-40****
13.0	47.0	36.0	24.0	35.0	C61E2136-40****
14.0	47.0	36.0	24.0	35.0	C61E2146-40****
15.0	47.0	38.0	26.0	35.0	C61E2156-40****
17.5	47.0	40.0	28.0	35.0	C61E217E-40****
15.0	57.0	36.0	22.0	45.0	C61E2156-50****
17.5	57.0	38.0	24.0	45.0	C61E217E-50****
20.0	57.0	38.0	24.0	45.0	C61E2206-50****
20.0	67.0	36.0	24.0	55.0	C61E2206-60****

- Notes: 1. “-” =capacitance tolerance code, J=±5%, K=±10%.
 2. “****” =terminal form code (refer to table 1)
 3. When P=22.5/27.5mm,d=0.8±0.05mm; When P>27.5mm,d=1.0±0.05mm.
 4. Dimension of tab please refer to outline drawing.
 5. When W=37mm, insulated flexible lead gauge =AWG20; When W>37mm, insulated flexible lead gauge =AWG18.
 6. “★” = Arc-bottom of the outer case.

■ Current derating for film capacitors with altitude and temperature

- Altitude derating: When the altitude exceeds 4000m, the current derates by 3% for every 500m increase.
- Current derating curve with temperature:



Note:

- ▲ When the maximum temperature of capacitor case is lower than 85°C, the current coefficient is 1.
- ▲ When the temperature of the capacitor case rises, the derating shall be according to the above current derating coefficient.

■ Test Method And Performance

No.	Item	Performance	Test Method (IEC 60252-1)
1	Solder ability (for wire terminals)	Good quality of tinning	Solder temperature: 245°C ±5°C Immersion time: 2.0s±0.5s
2	Terminal strength	There shall be no visible damage	Tension: 20N(for wire terminals) 40N(for tabs) Bend: 10N, (only for wire terminals) The terminals shall be bent 2 times in each direction
3	Vibration	There shall be no visible damage Capacitance change: ≤0.5% High voltage between terminal and case: 2000Vac, 60s, There shall be no permanent breakdown or flashover	f=10Hz to 55Hz a=±/-.35mm Test duration per axis = 10 frequency cycles (3 axes offset from each other by 90°C), 1 octave per minute, the total times are 135min for 3 axes.
4	Resistance to solder heat (for wire terminals)	There shall be no visible damage. The marking shall be legible. The capacitance change ≤0.5%	Solder temperature:260°C±5°C Immersion time: 10s±1s
5	Damp heat test	There shall be no visible damage. The marking shall be legible. Capacitance change: ≤0.5% High voltage between terminals: 2.0Un, 60s High voltage between terminal and case: 2000Vac, 60s. There shall be no permanent breakdown or flashover.	Temperature: 40°C ±2°C Humidity: 93 ₋₃ ⁺² %RH Duration: 21days
6	Endurance test	During test, no permanent breakdown, interruption or flashover shall occur Liquids are allowed to wet the surface but not to form droplets Capacitance change: ≤3%	Test time: 600 hours, Class C; Test voltage:1.25 Un Continuous Test time: 1000 hours, Class B; Test voltage:1.35 Un Continuous Temperature: maximum permissible capacitor operating temperature (+85°C)
7	Self-healing test	There shall be no visible damage. The marking shall be legible. Change of capacitance: ≤0.5% Insulation resistor: IR ≥ 100s, charge voltage 100Vdc, 60s, temperature 20°C One additional clearing in each capacitor shall be permitted during this period.	The capacitors shall be subjected to an a.c. voltage of 2.0Un, which is increased at a rate of not more than 200V/min. until five clearings have occurred since the beginning of the test or until the voltage has reach 3.5Un. The voltage shall be decreased to 0.8 times the value at which the fifth clearing occurs or 0.8 times the maximum voltage and maintained for 10s.
8	Ball-pressure test	The sample will be cooled in cooling water for 10s after test. Diameter of impression not exceeding 2mm	Sample: Epoxy Resin piece Sample size: 30mm×30mm Sample thickness: ≥3mm Temperature: (125±5) °C Ball diameter: φ5 Pressure: 20N Testing time: 1h

No.	Item	Performance	Test Method (IEC 60252-1)
9	Glow-wire test	Any flame or glowing of the specimen shall extinguish within 30s of with drawing the glow-wire, and any flaming drops shall not ignite the tissue	Sample: Epoxy Resin piece Sample size: 30mm×30mm Sample thickness: ≥3mm The temperature of the tip of the glow-wire: (550±10) °C, $I_n \leq 0.5A$; (850±15) °C, $I_n > 0.5A$; Testing time: 30s±1s The tissue spread out below the sample: 200mm±5mm
10	Tracking test	The electric current of the surface of sample: <0.5A; The sample shall not be ignited	Sample: Epoxy Resin piece Sample size: 15mm×15mm Sample thickness: ≥3mm Electrode: Pt Pressure: 1.0N±0.05N Drop of liquid: 50 or the sample has been destroyed.

■ Marking (For example)

CBB61

 GB/T 3667.1 UL 810 EN 60252-1
 C22.2 No.190 IEC 60252-1

450VAC 2.0μF±5% 40/85/21

SH 50/60Hz S0 C P30001

$P > 27.5\text{mm}$

CBB61 350VAC
 2.2μF±10% 50/60Hz
 40/70/21 SH S0 C

GB/T 3667.1 UL 810 EN 60252-1
 C22.2 No.190 IEC 60252-1

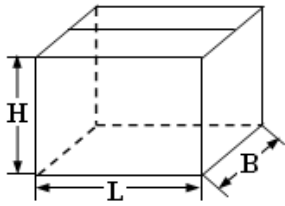
$P \leq 27.5\text{mm}$

Marking Introduction:

sign	explain	sign	explain
	Brand	SH	Self healing capacitor
CBB61	Type	S0	Class of safety protection
350VAC 450VAC	Rated voltage		CQC Approved and apply standard
2.0μF±5% 2.2μF±10%	Rated capacitance and tolerance		UL and CUL Approved and apply standard
40/70/21 40/85/21	Climate category		VDE Approved and apply standard
50/60Hz	Rated frequency	P30001	Lot No.
C	Running Class		

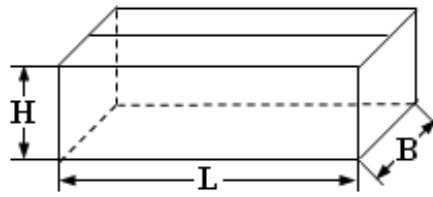
■ Packing box sizes(mm)(example)

1. Out packing box for bulk



L:375±5
B:375±5
H:265±5

2. Inner packing box for bulk



L:355±3
B:175±3
H:118±3

■ Storage conditions

▲ It must be noted that the solderability of the terminals may be deteriorated when stored in an atmosphere filled with moisture, dust, or a reactive oxidizing gas.(hydrogen chloride, hydrogen sulfide, sulfuric acid,etc.)

▲ It shouldn't be located in particularly high temperature and high humidity, it must submit to the following conditions(unchanging primal package):

Temperature: -40°C to 35°C

Humidity: Average per year ≤70%RH;

For 30 full days randomly distributed throughout the year ≤80%RH

Storage time for tinned lead wire: (from the date marked on the capacitor's body or the label glued to the package) :

Bulk(packed with plastic bag): ≤24 months ;

Taping and line up: ≤12 months