



CBB60H (THB)

CBB60H series (THB)

## CBB60H 高防潮型 DC-Link 电容器(THB)

### CBB60H Strong Moisture Resistance Type DC-Link Capacitor(THB)

< 85°C/85%RH / 1000h /  $U_{NDC}(85^\circ\text{C})$  >

#### ◆ 外形尺寸图及产品结构 Outline Drawing and Capacitor Construction

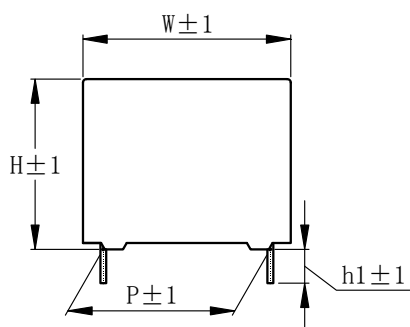


图 1: 2Pins

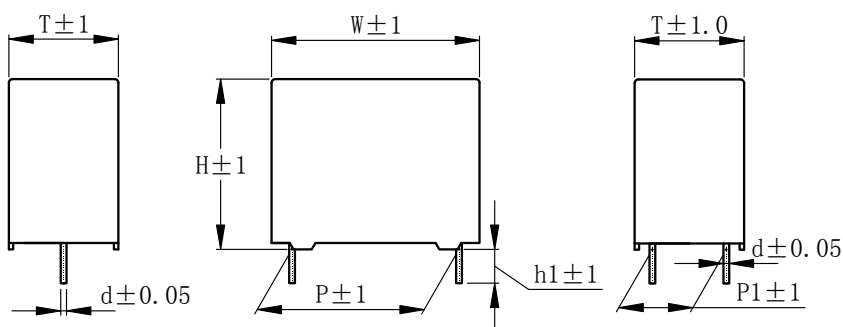


图 2: 4Pins

#### ◆ 特点及用途 Application and Feature

自感小, 等效串联电阻小, 大纹波电流承受能力, 高防潮性, 通常用于变频器、感应加热设备、UPS 等的直流母线滤波电路当中。

Low ESL, Low ESR, Support high ripple current, strong moisture resistance, especially used in DC-Link circuit for UPS, inverter, induction heating equipment.

#### ◆ 技术要求 Specifications

|  |   |                            |
|--|---|----------------------------|
| 参照标准 Reference Standard                              | GB/T 17702、IEC 61071  |                            |
| 气候类别 Climatic Category                               | 40/85/56  |                            |
| 额定电压 Rated Voltage (70°C)                            | 500Vdc、600Vdc、800Vdc、900Vdc、1000Vdc、1100Vdc、1200Vdc                                       |                            |
| 工作温度范围(热点)<br>Operation Temperature Range (Hot Spot) | -40°C~105°C<br>(+85°C~+105°C: 1.35%/°C of $U_{OP}$ derating compared to $U_{OP}$ at 85°C) |                            |
| 电容量 Capacitance Range                                | 1.0μF~110μF   |                            |
| 电容量偏差 Capacitance Tolerance                          | ±5%(J)、±10%(K) (20±5°C, 1KHz)   |                            |
| 耐电压 Voltage Proof                                    | 极间 Between Terminals  | $U=1.5U_{NDC}$ (20°C, 10s) |
|  | 极壳 Between Terminals to Case  | 2000Vac (10s), 50Hz        |
| 绝缘电阻 Insulation Resistance                           | $IR \times C \geq 10\,000s$ (20°C, 100Vdc, 1min)  |                            |
| 最大峰值电流 $\hat{I}$ (A)<br>Maximum Peak Current(A)      | $\hat{I} = C_R \times Dv/dt$  |                            |
| 工作寿命 Operation Life Time                             | 参照预期寿命曲线 Refer to Expected Lifetime Curves  |                            |
| 过电压 Over Voltage                                     | 一天之内的最长持续时间<br>Maximum Duration within Day  | 说明<br>Observation          |
|  | 1.1 $U_{NDC}$ (30% of on-load-dur.)   | 系统调整<br>System Regulation  |
|  | 1.15 $U_{NDC}$ (30min/day)  |                            |
|  | 1.2 $U_{NDC}$ (5min/day)  |                            |
|  | 1.3 $U_{NDC}$ (1min/day)  |                            |

◆ 产品代码编写说明: Part number code system:

16 位产品代码如下: The 16 digits part number is formed as follow:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

|   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| C | 6 | 0 | H |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|

10<sup>7</sup>

|           |  |             |   |
|-----------|--|-------------|---|
| 第 1~4 位   | 薄膜电容器系列代码<br>C60H=CBB60H   | Digit 1~4   | Series code of film capacitor<br>C60H=CBB60H  |
| 第 5~7 位   | 标称容量代码<br>举例: 105=10×10 <sup>5</sup> pF=1μF                                  | Digit 5~7   | Rated capacitance value code<br>For example:105=10×10 <sup>5</sup> pF=1μF                 |
| 第 8 位     | 容量等级代码<br>J=±5%K=±10%  | Digit 8     | Capacitance tolerance code<br>J=±5%K=±10%   |
| 第 9~10 位  | 直流额定电压代码<br>2H=500V 1U=600V 1W=800V<br>1X=900V 3A=1000V<br>3K=1100V 3L=1200V | Digit 9~10  | DC rated voltage code<br>2H=500V 1U=600V 1W=800V<br>1X=900V 3A=1000V<br>3K=1100V 3L=1200V |
| 第 11 位    | 引线间距<br>B=27.5mm E=37.5mm G=52.5mm   | Digit 11    | Pitch<br>B=27.5mm E=37.5mm G=52.5mm   |
| 第 12 位    | 内部特征码  | Digit 12    | Internal use  |
| 第 13~16 位 | 引出端代码<br>见表 1  | Digit 13~16 | Terminals code<br>Referring to table 1  |
| 表 1       | 引线形式代码   | Table 1     | Lead form code  |

| 第13位 Digit13                      |                   | 第14~15位 Digit14~Digit15 |  | 第 16 位 Digit16          |  |
|-----------------------------------|-------------------|-------------------------|--|-------------------------|--|
| 引线形式及P1<br>Lead form and pitch P1 |                   | 引线长度 Lead length        |  | 引线长度偏差 Length tolerance |  |
| 代码<br>Code                        | 说明<br>explanation | 代码<br>Code              | 说明<br>explanation                            | 代码<br>Code              | 说明<br>explanation                      |
| 0                                 | 2Pins P1=0mm      | 00                      | 标准引线长度5.5mm<br>standard lead length<br>5.5mm | 0                       | 引线长度偏差±1.0mm<br>Length tolerance±1.0mm |
| 1                                 | 4Pins P1=5.1mm    |                         |  |                         |  |
| 2                                 | 4Pins P1=10.2mm   |                         |  |                         |  |
| 3                                 | 4Pins P1=12.7mm   |                         |  |                         |  |
| 4                                 | 4Pins P1=15.2mm   |                         |  |                         |  |
| 5                                 | 4Pins P1=20.3mm   |                         |  |                         |  |



# CBB60H (THB)

## CBB60H series (THB)

◆ 产品尺寸及性能参数: **Product Dimension and Characteristic Data:**

| U <sub>NDC</sub> (70°C): 500Vdc/U <sub>NDC</sub> (85°C): 450Vdc |    |      |      |      |      |     |                 |                         |       |             |                         |                     |
|---|----|------|------|------|------|-----|-----------------|-------------------------|-------|-------------|-------------------------|---------------------|
| C<br>(μF)   | W  | H    | T    | P    | P1   | d   | dv/dt<br>(V/μs) | tgδ×(10 <sup>-4</sup> ) |       | ESR<br>(mΩ) | I <sub>RMS</sub><br>(A) | 产品代码<br>Part number |
|   |    |      |      |      |      |     |                 | 1KHz                    | 10KHz |             |                         |                     |
| 5   | 32 | 25   | 11   | 27.5 | -    | 0.8 | 65              | 10                      | 70    | 12.0        | 6.0                     | C60H505-2HB00000    |
| 6   | 32 | 28   | 14   | 27.5 | -    | 0.8 | 65              | 10                      | 72    | 10.5        | 7.0                     | C60H605-2HB00000    |
| 7   | 32 | 28   | 14   | 27.5 | -    | 0.8 | 65              | 10                      | 74    | 9.0         | 8.0                     | C60H705-2HB00000    |
| 8   | 32 | 28   | 14   | 27.5 | -    | 0.8 | 65              | 10                      | 75    | 8.0         | 8.5                     | C60H805-2HB00000    |
| 9   | 32 | 28   | 14   | 27.5 | -    | 0.8 | 65              | 10                      | 77    | 7.5         | 8.5                     | C60H905-2HB00000    |
| 10  | 32 | 30   | 16   | 27.5 | -    | 0.8 | 65              | 11                      | 78    | 7.0         | 9.5                     | C60H106-2HB00000    |
| 12  | 32 | 30   | 16   | 27.5 | -    | 0.8 | 65              | 11                      | 81    | 6.0         | 10.0                    | C60H126-2HB00000    |
| 15  | 32 | 33   | 18   | 27.5 | -    | 0.8 | 65              | 11                      | 86    | 5.0         | 12.0                    | C60H156-2HB00000    |
| 15  | 32 | 33   | 18   | 27.5 | 10.2 | 0.8 | 65              | 10                      | 74    | 4.5         | 12.5                    | C60H156-2HB02000    |
| 20  | 32 | 37   | 22   | 27.5 | -    | 0.8 | 65              | 12                      | 98    | 4.5         | 12.0                    | C60H206-2HB00000    |
| 20  | 32 | 37   | 22   | 27.5 | 10.2 | 0.8 | 65              | 11                      | 80    | 4           | 15.5                    | C60H206-2HB02000    |
| 15  | 42 | 30   | 16   | 37.5 | -    | 1   | 30              | 19                      | 167   | 9.5         | 9.0                     | C60H156-2HE00000    |
| 20  | 42 | 33.5 | 18.5 | 37.5 | -    | 1   | 30              | 20                      | 172   | 7.5         | 11.0                    | C60H206-2HE00000    |
| 20  | 42 | 33.5 | 18.5 | 37.5 | 10.2 | 1   | 30              | 19                      | 162   | 7.0         | 11.5                    | C60H206-2HE02000    |
| 25  | 42 | 40   | 20   | 37.5 | -    | 1   | 30              | 21                      | 180   | 6.5         | 13.0                    | C60H256-2HE00000    |
| 25  | 42 | 40   | 20   | 37.5 | 10.2 | 1   | 30              | 19                      | 166   | 6.0         | 13.5                    | C60H256-2HE02000    |
| 30  | 42 | 44   | 24   | 37.5 | -    | 1   | 30              | 22                      | 192   | 5.5         | 14.0                    | C60H306-2HE00000    |
| 30  | 42 | 44   | 24   | 37.5 | 10.2 | 1   | 30              | 20                      | 172   | 5.0         | 16.0                    | C60H306-2HE02000    |
| 35  | 42 | 44   | 24   | 37.5 | -    | 1   | 30              | 22                      | 196   | 5.0         | 14.0                    | C60H356-2HE00000    |
| 35  | 42 | 44   | 24   | 37.5 | 10.2 | 1   | 30              | 20                      | 174   | 4.5         | 16.5                    | C60H356-2HE02000    |
| 40  | 42 | 45   | 30   | 37.5 | 10.2 | 1.2 | 30              | 20                      | 173   | 4.0         | 19.0                    | C60H406-2HE02000    |
| 40  | 42 | 45   | 30   | 37.5 | 20.3 | 1.2 | 30              | 20                      | 173   | 4.0         | 19.0                    | C60H406-2HE05000    |
| 50  | 42 | 45   | 30   | 37.5 | 10.2 | 1.2 | 30              | 20                      | 176   | 3.0         | 22.0                    | C60H506-2HE02000    |
| 50  | 42 | 45   | 30   | 37.5 | 20.3 | 1.2 | 30              | 20                      | 176   | 3.0         | 22.0                    | C60H506-2HE05000    |
| 60  | 42 | 50   | 30   | 37.5 | 10.2 | 1.2 | 30              | 21                      | 181   | 3.0         | 22.5                    | C60H606-2HE02000    |
| 60  | 42 | 50   | 30   | 37.5 | 20.3 | 1.2 | 30              | 21                      | 181   | 3.0         | 22.5                    | C60H606-2HE05000    |
| 70  | 42 | 55   | 35   | 37.5 | 10.2 | 1.2 | 30              | 22                      | 192   | 2.5         | 26.5                    | C60H706-2HE02000    |
| 70  | 42 | 55   | 35   | 37.5 | 20.3 | 1.2 | 30              | 22                      | 192   | 2.5         | 26.5                    | C60H706-2HE05000    |
| 80  | 42 | 55   | 35   | 37.5 | 10.2 | 1.2 | 30              | 22                      | 195   | 2.5         | 26.5                    | C60H806-2HE02000    |
| 80  | 42 | 55   | 35   | 37.5 | 20.3 | 1.2 | 30              | 22                      | 195   | 2.5         | 26.5                    | C60H806-2HE05000    |
| 70  | 57 | 45   | 30   | 52.5 | 10.2 | 1.2 | 15              | 36                      | 333   | 4.0         | 21.5                    | C60H706-2HG02000    |
| 70  | 57 | 45   | 30   | 52.5 | 20.3 | 1.2 | 15              | 36                      | 333   | 4.0         | 21.5                    | C60H706-2HG05000    |
| 80  | 57 | 50   | 30   | 52.5 | 10.2 | 1.2 | 15              | 36                      | 341   | 4.0         | 22.0                    | C60H806-2HG02000    |
| 80  | 57 | 50   | 30   | 52.5 | 20.3 | 1.2 | 15              | 36                      | 341   | 4.0         | 22.0                    | C60H806-2HG05000    |
| 90  | 57 | 50   | 35   | 52.5 | 20.3 | 1.2 | 15              | 37                      | 350   | 3.5         | 24.5                    | C60H906-2HG05000    |
| 100   | 57 | 50   | 35   | 52.5 | 20.3 | 1.2 | 15              | 37                      | 353   | 3.0         | 26.5                    | C60H107-2HG05000    |
| 110   | 57 | 57   | 35   | 52.5 | 20.3 | 1.2 | 15              | 38                      | 362   | 3.0         | 28.0                    | C60H117-2HG05000    |

# CBB60H (THB)

## CBB60H series (THB)



◆ 产品尺寸及性能参数: Product Dimension and Characteristic Data:

| U <sub>NDC</sub> (70°C): 600Vdc/U <sub>NDC</sub> (85°C): 500Vdc |    |      |      |      |      |     |                 |                         |       |             |                         |                     |
|---|----|------|------|------|------|-----|-----------------|-------------------------|-------|-------------|-------------------------|---------------------|
| C<br>(μF)   | W  | H    | T    | P    | P1   | d   | dv/dt<br>(V/μs) | tgδ×(10 <sup>-4</sup> ) |       | ESR<br>(mΩ) | I <sub>RMS</sub><br>(A) | 产品代码<br>Part number |
|   |    |      |      |      |      |     |                 | 1KHz                    | 10KHz |             |                         |                     |
| 4   | 32 | 25   | 11   | 27.5 | -    | 0.8 | 65              | 9                       | 61    | 13.0        | 6.0                     | C60H405-1UB00000    |
| 5   | 32 | 28   | 14   | 27.5 | -    | 0.8 | 65              | 9                       | 62    | 10.5        | 7.0                     | C60H505-1UB00000    |
| 6   | 32 | 28   | 14   | 27.5 | -    | 0.8 | 65              | 9                       | 64    | 9.0         | 8.0                     | C60H605-1UB00000    |
| 7   | 32 | 30   | 16   | 27.5 | -    | 0.8 | 65              | 9                       | 65    | 8.0         | 9.0                     | C60H705-1UB00000    |
| 8   | 32 | 30   | 16   | 27.5 | -    | 0.8 | 65              | 9                       | 67    | 7.0         | 9.5                     | C60H805-1UB00000    |
| 10  | 32 | 33   | 18   | 27.5 | -    | 0.8 | 65              | 10                      | 70    | 6.0         | 10.0                    | C60H106-1UB00000    |
| 10  | 32 | 33   | 18   | 27.5 | 10.2 | 0.8 | 65              | 9                       | 62    | 5.5         | 11.5                    | C60H106-1UB02000    |
| 15  | 32 | 37   | 22   | 27.5 | -    | 0.8 | 65              | 11                      | 81    | 4.5         | 10.0                    | C60H156-1UB00000    |
| 15  | 32 | 37   | 22   | 27.5 | 10.2 | 0.8 | 65              | 9                       | 67    | 4.0         | 14.5                    | C60H156-1UB02000    |
| 10  | 42 | 30   | 16   | 37.5 | -    | 1   | 30              | 17                      | 141   | 12.0        | 8.0                     | C60H106-1UE00000    |
| 15  | 42 | 33.5 | 18.5 | 37.5 | -    | 1   | 30              | 17                      | 146   | 8.5         | 10.5                    | C60H156-1UE00000    |
| 15  | 42 | 33.5 | 18.5 | 37.5 | 10.2 | 1   | 30              | 17                      | 138   | 8.0         | 10.5                    | C60H156-1UE02000    |
| 20  | 42 | 40   | 20   | 37.5 | -    | 1   | 30              | 18                      | 153   | 6.5         | 13.0                    | C60H206-1UE00000    |
| 20  | 42 | 40   | 20   | 37.5 | 10.2 | 1   | 30              | 17                      | 142   | 6.0         | 13.5                    | C60H206-1UE02000    |
| 25  | 42 | 44   | 24   | 37.5 | -    | 1   | 30              | 19                      | 163   | 5.5         | 14.0                    | C60H256-1UE00000    |
| 25  | 42 | 44   | 24   | 37.5 | 10.2 | 1   | 30              | 17                      | 147   | 5.0         | 16.0                    | C60H256-1UE02000    |
| 30  | 42 | 45   | 30   | 37.5 | 10.2 | 1.2 | 30              | 17                      | 146   | 4.5         | 17.5                    | C60H306-1UE02000    |
| 30  | 42 | 45   | 30   | 37.5 | 20.3 | 1.2 | 30              | 17                      | 146   | 4.5         | 17.5                    | C60H306-1UE05000    |
| 35  | 42 | 45   | 30   | 37.5 | 10.2 | 1.2 | 30              | 17                      | 148   | 4.0         | 19.0                    | C60H356-1UE02000    |
| 35  | 42 | 45   | 30   | 37.5 | 20.3 | 1.2 | 30              | 17                      | 148   | 4.0         | 19.0                    | C60H356-1UE05000    |
| 40  | 42 | 50   | 30   | 37.5 | 10.2 | 1.2 | 30              | 18                      | 151   | 3.5         | 21.0                    | C60H406-1UE02000    |
| 40  | 42 | 50   | 30   | 37.5 | 20.3 | 1.2 | 30              | 18                      | 151   | 3.5         | 21.0                    | C60H406-1UE05000    |
| 50  | 42 | 55   | 35   | 37.5 | 20.3 | 1.2 | 30              | 19                      | 160   | 3.0         | 24.5                    | C60H506-1UE05000    |
| 55  | 42 | 55   | 35   | 37.5 | 20.3 | 1.2 | 30              | 19                      | 162   | 2.5         | 26.5                    | C60H556-1UE05000    |
| 50  | 57 | 45   | 30   | 52.5 | 10.2 | 1.2 | 15              | 31                      | 283   | 5.0         | 19.0                    | C60H506-1UG02000    |
| 50  | 57 | 45   | 30   | 52.5 | 20.3 | 1.2 | 15              | 31                      | 283   | 5.0         | 19.0                    | C60H506-1UG05000    |
| 60  | 57 | 50   | 30   | 52.5 | 10.2 | 1.2 | 15              | 31                      | 289   | 4.5         | 21.0                    | C60H606-1UG02000    |
| 60  | 57 | 50   | 30   | 52.5 | 20.3 | 1.2 | 15              | 31                      | 289   | 4.5         | 21.0                    | C60H606-1UG05000    |
| 70  | 57 | 50   | 35   | 52.5 | 20.3 | 1.2 | 15              | 32                      | 296   | 4.0         | 23.0                    | C60H706-1UG05000    |
| 80  | 57 | 57   | 35   | 52.5 | 20.3 | 1.2 | 15              | 33                      | 303   | 3.5         | 26.0                    | C60H806-1UG05000    |
| 90  | 57 | 60   | 40   | 52.5 | 20.3 | 1.2 | 15              | 34                      | 318   | 3.0         | 29.5                    | C60H906-1UG05000    |
| 100   | 57 | 60   | 40   | 52.5 | 20.3 | 1.2 | 15              | 34                      | 322   | 3.0         | 29.5                    | C60H107-1UG05000    |
| 110   | 57 | 60   | 45   | 52.5 | 20.3 | 1.2 | 15              | 35                      | 331   | 3.0         | 30.0                    | C60H117-1UG05000    |



# CBB60H (THB)

## CBB60H series (THB)

◆ 产品尺寸及性能参数: Product Dimension and Characteristic Data:

| U <sub>NDC</sub> (70℃): 800Vdc/U <sub>NDC</sub> (85℃): 700Vdc |    |      |      |      |      |     |                 |                         |       |             |                         |                     |
|---|----|------|------|------|------|-----|-----------------|-------------------------|-------|-------------|-------------------------|---------------------|
| C<br>(μF)   | W  | H    | T    | P    | P1   | d   | dv/dt<br>(V/μs) | tgδ×(10 <sup>-4</sup> ) |       | ESR<br>(mΩ) | I <sub>RMS</sub><br>(A) | 产品代码<br>Part number |
|   |    |      |      |      |      |     |                 | 1KHz                    | 10KHz |             |                         |                     |
| 3   | 32 | 25   | 11   | 27.5 | -    | 0.8 | 65              | 8                       | 53    | 15.0        | 5.5                     | C60H305-1WB00000    |
| 4   | 32 | 28   | 14   | 27.5 |      | 0.8 | 65              | 8                       | 51    | 11.0        | 7.0                     | C60H405-1WB00000    |
| 5   | 32 | 28   | 14   | 27.5 | -    | 0.8 | 65              | 8                       | 56    | 9.5         | 7.5                     | C60H505-1WB00000    |
| 6   | 32 | 30   | 16   | 27.5 | -    | 0.8 | 65              | 8                       | 57    | 8.0         | 9.0                     | C60H605-1WB00000    |
| 8   | 32 | 33   | 18   | 27.5 | -    | 0.8 | 65              | 9                       | 61    | 6.5         | 10.5                    | C60H805-1WB00000    |
| 8   | 32 | 33   | 18   | 27.5 | 10.2 | 0.8 | 65              | 8                       | 54    | 6.0         | 11.0                    | C60H805-1WB02000    |
| 10  | 32 | 37   | 22   | 27.5 | -    | 0.8 | 65              | 9                       | 66    | 6.0         | 12.0                    | C60H106-1WB00000    |
| 10  | 32 | 37   | 22   | 27.5 | 10.2 | 0.8 | 65              | 8                       | 57    | 5.0         | 13.0                    | C60H106-1WB02000    |
| 8   | 42 | 30   | 16   | 37.5 | -    | 1   | 30              | 15                      | 123   | 13.0        | 7.5                     | C60H805-1WE00000    |
| 10  | 42 | 33.5 | 18.5 | 37.5 | -    | 1   | 30              | 15                      | 125   | 10.5        | 9.5                     | C60H106-1WE00000    |
| 10  | 42 | 33.5 | 18.5 | 37.5 | 10.2 | 1   | 30              | 15                      | 120   | 10          | 9.5                     | C60H106-1WE02000    |
| 15  | 42 | 40   | 20   | 37.5 | -    | 1   | 30              | 16                      | 132   | 7.5         | 12.0                    | C60H156-1WE00000    |
| 15  | 42 | 40   | 20   | 37.5 | 10.2 | 1   | 30              | 15                      | 124   | 7.0         | 12.5                    | C60H156-1WE02000    |
| 20  | 42 | 44   | 24   | 37.5 | -    | 1   | 30              | 17                      | 141   | 6.0         | 14.0                    | C60H206-1WE00000    |
| 20  | 42 | 44   | 24   | 37.5 | 10.2 | 1   | 30              | 15                      | 128   | 5.5         | 15.0                    | C60H206-1WE02000    |
| 25  | 42 | 45   | 30   | 37.5 | 10.2 | 1.2 | 30              | 15                      | 128   | 4.5         | 17.5                    | C60H256-1WE02000    |
| 25  | 42 | 45   | 30   | 37.5 | 20.3 | 1.2 | 30              | 15                      | 128   | 4.5         | 17.5                    | C60H256-1WE05000    |
| 30  | 42 | 50   | 30   | 37.5 | 10.2 | 1.2 | 30              | 16                      | 131   | 4.0         | 19.5                    | C60H306-1WE02000    |
| 30  | 42 | 50   | 30   | 37.5 | 20.3 | 1.2 | 30              | 16                      | 131   | 4.0         | 19.5                    | C60H306-1WE05000    |
| 40  | 42 | 55   | 35   | 37.5 | 10.2 | 1.2 | 30              | 16                      | 138   | 3.0         | 24.5                    | C60H406-1WE02000    |
| 40  | 42 | 55   | 35   | 37.5 | 20.3 | 1.2 | 30              | 16                      | 138   | 3.0         | 24.5                    | C60H406-1WE05000    |
| 40  | 57 | 45   | 30   | 52.5 | 10.2 | 1.2 | 15              | 27                      | 246   | 5.5         | 18.0                    | C60H406-1WG02000    |
| 40  | 57 | 45   | 30   | 52.5 | 20.3 | 1.2 | 15              | 27                      | 246   | 5.5         | 18.0                    | C60H406-1WG05000    |
| 45  | 57 | 50   | 30   | 52.5 | 10.2 | 1.2 | 15              | 28                      | 250   | 5.0         | 20.0                    | C60H456-1WG02000    |
| 45  | 57 | 50   | 30   | 52.5 | 20.3 | 1.2 | 15              | 28                      | 250   | 5.0         | 20.0                    | C60H456-1WG05000    |
| 50  | 57 | 50   | 35   | 52.5 | 20.3 | 1.2 | 15              | 28                      | 254   | 4.5         | 21.5                    | C60H506-1WG05000    |
| 55  | 57 | 50   | 35   | 52.5 | 20.3 | 1.2 | 15              | 28                      | 256   | 4.0         | 23.0                    | C60H556-1WG05000    |
| 60  | 57 | 57   | 35   | 52.5 | 20.3 | 1.2 | 15              | 29                      | 261   | 4.0         | 24.0                    | C60H606-1WG05000    |
| 65  | 57 | 57   | 35   | 52.5 | 20.3 | 1.2 | 15              | 29                      | 262   | 3.5         | 26.0                    | C60H656-1WG05000    |
| 70  | 57 | 60   | 40   | 52.5 | 20.3 | 1.2 | 15              | 30                      | 273   | 3.5         | 27.0                    | C60H706-1WG05000    |
| 75  | 57 | 60   | 40   | 52.5 | 20.3 | 1.2 | 15              | 30                      | 275   | 3.5         | 27.0                    | C60H756-1WG05000    |
| 80  | 57 | 60   | 45   | 52.5 | 20.3 | 1.2 | 15              | 30                      | 281   | 3.0         | 30.0                    | C60H806-1WG05000    |
| 90  | 57 | 60   | 45   | 52.5 | 20.3 | 1.2 | 15              | 31                      | 285   | 3.0         | 30.0                    | C60H906-1WG05000    |

◆ 产品尺寸及性能参数: Product Dimension and Characteristic Data:

| U <sub>NDC</sub> (70℃): 900Vdc/U <sub>NDC</sub> (85℃): 760Vdc |    |      |      |      |      |     |                 |                         |       |             |                         |                     |
|---|----|------|------|------|------|-----|-----------------|-------------------------|-------|-------------|-------------------------|---------------------|
| C<br>(μF)   | W  | H    | T    | P    | P1   | d   | dv/dt<br>(V/μs) | tgδ×(10 <sup>-4</sup> ) |       | ESR<br>(mΩ) | I <sub>RMS</sub><br>(A) | 产品代码<br>Part number |
|   |    |      |      |      |      |     |                 | 1KHz                    | 10KHz |             |                         |                     |
| 2   | 32 | 25   | 11   | 27.5 | -    | 0.8 | 70              | 7                       | 46    | 19.5        | 5.0                     | C60H205-1XB00000    |
| 3   | 32 | 28   | 14   | 27.5 | -    | 0.8 | 70              | 7                       | 48    | 13.5        | 6.5                     | C60H305-1XB00000    |
| 4   | 32 | 28   | 14   | 27.5 | -    | 0.8 | 70              | 8                       | 49    | 10.5        | 7.0                     | C60H405-1XB00000    |
| 5   | 32 | 30   | 16   | 27.5 | -    | 0.8 | 70              | 8                       | 51    | 9.0         | 8.5                     | C60H505-1XB00000    |
| 6   | 32 | 33   | 18   | 27.5 | -    | 0.8 | 70              | 8                       | 53    | 7.5         | 9.5                     | C60H605-1XB00000    |
| 6   | 32 | 33   | 18   | 27.5 | 10.2 | 0.8 | 70              | 7                       | 48    | 7.0         | 10.0                    | C60H605-1XB02000    |
| 7   | 32 | 37   | 22   | 27.5 | -    | 0.8 | 70              | 8                       | 56    | 7.0         | 11.0                    | C60H705-1XB00000    |
| 7   | 32 | 37   | 22   | 27.5 | 10.2 | 0.8 | 70              | 8                       | 50    | 6.5         | 12.0                    | C60H705-1XB02000    |
| 8   | 32 | 37   | 22   | 27.5 | -    | 0.8 | 70              | 8                       | 58    | 6.5         | 11.5                    | C60H805-1XB00000    |
| 8   | 32 | 37   | 22   | 27.5 | 10.2 | 0.8 | 70              | 8                       | 50    | 6.0         | 12.0                    | C60H805-1XB02000    |
| 9   | 32 | 37   | 22   | 27.5 | -    | 0.8 | 70              | 9                       | 59    | 5.5         | 12.0                    | C60H905-1XB00000    |
| 9   | 32 | 37   | 22   | 27.5 | 10.2 | 0.8 | 70              | 8                       | 51    | 5.0         | 13.0                    | C60H905-1XB02000    |
| 6   | 42 | 30   | 16   | 37.5 | -    | 1   | 35              | 14                      | 109   | 15.5        | 7.0                     | C60H605-1XE00000    |
| 9   | 42 | 33.5 | 18.5 | 37.5 | -    | 1   | 35              | 14                      | 112   | 10.5        | 9.5                     | C60H905-1XE00000    |
| 9   | 42 | 33.5 | 18.5 | 37.5 | 10.2 | 1   | 35              | 13                      | 108   | 10.0        | 9.5                     | C60H905-1XE02000    |
| 12  | 42 | 40   | 20   | 37.5 | -    | 1   | 35              | 14                      | 116   | 8.5         | 11.0                    | C60H126-1XE00000    |
| 12  | 42 | 40   | 20   | 37.5 | 10.2 | 1   | 35              | 14                      | 110   | 8.0         | 11.5                    | C60H126-1XE02000    |
| 15  | 42 | 44   | 24   | 37.5 | -    | 1   | 35              | 15                      | 122   | 7.0         | 13.5                    | C60H156-1XE00000    |
| 15  | 42 | 44   | 24   | 37.5 | 10.2 | 1   | 35              | 14                      | 113   | 6.5         | 14.0                    | C60H156-1XE02000    |
| 20  | 42 | 45   | 30   | 37.5 | 10.2 | 1.2 | 35              | 14                      | 113   | 5.0         | 17.0                    | C60H206-1XE02000    |
| 20  | 42 | 45   | 30   | 37.5 | 20.3 | 1.2 | 35              | 14                      | 113   | 5.0         | 17.0                    | C60H206-1XE05000    |
| 25  | 42 | 50   | 30   | 37.5 | 10.2 | 1.2 | 35              | 14                      | 116   | 4.0         | 19.5                    | C60H256-1XE02000    |
| 25  | 42 | 50   | 30   | 37.5 | 20.3 | 1.2 | 35              | 14                      | 116   | 4.0         | 19.5                    | C60H256-1XE05000    |
| 30  | 42 | 55   | 35   | 37.5 | 10.2 | 1.2 | 35              | 15                      | 120   | 3.5         | 22.5                    | C60H306-1XE02000    |
| 35  | 42 | 55   | 35   | 37.5 | 20.3 | 1.2 | 35              | 15                      | 122   | 3.0         | 24.5                    | C60H356-1XE05000    |
| 30  | 57 | 45   | 30   | 52.5 | 10.2 | 1.2 | 15              | 24                      | 217   | 6.5         | 17.0                    | C60H306-1XG02000    |
| 30  | 57 | 45   | 30   | 52.5 | 20.3 | 1.2 | 15              | 24                      | 217   | 6.5         | 17.0                    | C60H306-1XG05000    |
| 35  | 57 | 50   | 30   | 52.5 | 10.2 | 1.2 | 15              | 25                      | 221   | 5.5         | 19.0                    | C60H356-1XG02000    |
| 35  | 57 | 50   | 30   | 52.5 | 20.3 | 1.2 | 15              | 25                      | 221   | 5.5         | 19.0                    | C60H356-1XG05000    |
| 40  | 57 | 50   | 35   | 52.5 | 20.3 | 1.2 | 15              | 25                      | 224   | 5.0         | 20.5                    | C60H406-1XG05000    |
| 45  | 57 | 50   | 35   | 52.5 | 20.3 | 1.2 | 15              | 25                      | 226   | 4.5         | 21.5                    | C60H456-1XG05000    |
| 50  | 57 | 57   | 35   | 52.5 | 20.3 | 1.2 | 15              | 26                      | 230   | 4.0         | 24.0                    | C60H506-1XG05000    |
| 60  | 57 | 60   | 40   | 52.5 | 20.3 | 1.2 | 15              | 26                      | 240   | 3.5         | 27.0                    | C60H606-1XG05000    |
| 70  | 57 | 60   | 45   | 52.5 | 20.3 | 1.2 | 15              | 27                      | 247   | 3.0         | 30.0                    | C60H706-1XG05000    |



# CBB60H (THB)

## CBB60H series (THB)

◆ 产品尺寸及性能参数: **Product Dimension and Characteristic Data:**

| U <sub>NDC</sub> (70°C): 1000Vdc/U <sub>NDC</sub> (85°C): 850Vdc |    |      |      |      |      |     |                 |                         |       |             |                         |                     |
|--|----|------|------|------|------|-----|-----------------|-------------------------|-------|-------------|-------------------------|---------------------|
| C<br>(μF)  | W  | H    | T    | P    | P1   | d   | dv/dt<br>(V/μs) | tgδ×(10 <sup>-4</sup> ) |       | ESR<br>(mΩ) | I <sub>RMS</sub><br>(A) | 产品代码<br>Part number |
|  |    |      |      |      |      |     |                 | 1KHz                    | 10KHz |             |                         |                     |
| 2  | 32 | 25   | 11   | 27.5 | -    | 0.8 | 75              | 7                       | 42    | 18.0        | 5.0                     | C60H205-3AB00000    |
| 3  | 32 | 28   | 14   | 27.5 | -    | 0.8 | 75              | 7                       | 44    | 12.5        | 6.5                     | C60H305-3AB00000    |
| 4  | 32 | 30   | 16   | 27.5 | -    | 0.8 | 75              | 7                       | 45    | 9.5         | 8.0                     | C60H405-3AB00000    |
| 5  | 32 | 33   | 18   | 27.5 | -    | 0.8 | 75              | 7                       | 47    | 8.0         | 9.5                     | C60H505-3AB00000    |
| 5  | 32 | 33   | 18   | 27.5 | 10.2 | 0.8 | 75              | 7                       | 43    | 7.5         | 9.5                     | C60H505-3AB02000    |
| 6  | 32 | 37   | 22   | 27.5 | -    | 0.8 | 75              | 8                       | 50    | 7.5         | 10.5                    | C60H605-3AB00000    |
| 6  | 32 | 37   | 22   | 27.5 | 10.2 | 0.8 | 75              | 7                       | 45    | 7.0         | 11.5                    | C60H605-3AB02000    |
| 7  | 32 | 37   | 22   | 27.5 | -    | 0.8 | 75              | 8                       | 52    | 6.5         | 11.5                    | C60H705-3AB00000    |
| 7  | 32 | 37   | 22   | 27.5 | 10.2 | 0.8 | 75              | 7                       | 45    | 6.0         | 12.5                    | C60H705-3AB02000    |
| 8  | 32 | 37   | 22   | 27.5 | -    | 0.8 | 75              | 8                       | 53    | 6.0         | 12.0                    | C60H805-3AB00000    |
| 8  | 32 | 37   | 22   | 27.5 | 10.2 | 0.8 | 75              | 7                       | 46    | 5.5         | 13.0                    | C60H805-3AB02000    |
| 5  | 42 | 30   | 16   | 37.5 | -    | 1   | 37              | 13                      | 98    | 16.5        | 7.0                     | C60H505-3AE00000    |
| 7  | 42 | 33.5 | 18.5 | 37.5 | -    | 1   | 37              | 13                      | 100   | 12.0        | 8.5                     | C60H705-3AE00000    |
| 7  | 42 | 33.5 | 18.5 | 37.5 | 10.2 | 1   | 37              | 12                      | 97    | 11.5        | 9                       | C60H705-3AE02000    |
| 10   | 42 | 40   | 20   | 37.5 | -    | 1   | 37              | 13                      | 104   | 9.0         | 11.0                    | C60H106-3AE00000    |
| 10   | 42 | 40   | 20   | 37.5 | 10.2 | 1   | 37              | 13                      | 99    | 8.5         | 11.0                    | C60H106-3AE02000    |
| 12   | 42 | 44   | 24   | 37.5 | -    | 1   | 37              | 14                      | 109   | 8.0         | 12.5                    | C60H126-3AE00000    |
| 12   | 42 | 44   | 24   | 37.5 | 10.2 | 1   | 37              | 13                      | 101   | 7.5         | 13.0                    | C60H126-3AE02000    |
| 18   | 42 | 45   | 30   | 37.5 | 10.2 | 1.2 | 37              | 13                      | 102   | 5.0         | 17.0                    | C60H186-3AE02000    |
| 18   | 42 | 45   | 30   | 37.5 | 20.3 | 1.2 | 37              | 13                      | 102   | 5.0         | 17.0                    | C60H186-3AE05000    |
| 20   | 42 | 50   | 30   | 37.5 | 10.2 | 1.2 | 37              | 13                      | 103   | 4.5         | 18.5                    | C60H206-3AE02000    |
| 20   | 42 | 50   | 30   | 37.5 | 20.3 | 1.2 | 37              | 13                      | 103   | 4.5         | 18.5                    | C60H206-3AE05000    |
| 25   | 42 | 55   | 35   | 37.5 | 10.2 | 1.2 | 37              | 13                      | 107   | 4.0         | 21.0                    | C60H256-3AE02000    |
| 25   | 42 | 55   | 35   | 37.5 | 20.3 | 1.2 | 37              | 13                      | 107   | 4.0         | 21.0                    | C60H256-3AE05000    |
| 20   | 57 | 45   | 30   | 52.5 | 10.2 | 1.2 | 17              | 22                      | 193   | 8.5         | 14.5                    | C60H206-3AG02000    |
| 20   | 57 | 45   | 30   | 52.5 | 20.3 | 1.2 | 17              | 22                      | 193   | 8.5         | 14.5                    | C60H206-3AG05000    |
| 25   | 57 | 45   | 30   | 52.5 | 10.2 | 1.2 | 17              | 22                      | 195   | 7.0         | 16.0                    | C60H256-3AG02000    |
| 25   | 57 | 45   | 30   | 52.5 | 20.3 | 1.2 | 17              | 22                      | 195   | 7.0         | 16.0                    | C60H256-3AG05000    |
| 30   | 57 | 50   | 30   | 52.5 | 10.2 | 1.2 | 17              | 22                      | 198   | 6.0         | 18.0                    | C60H306-3AG02000    |
| 30   | 57 | 50   | 30   | 52.5 | 20.3 | 1.2 | 17              | 22                      | 198   | 6.0         | 18.0                    | C60H306-3AG05000    |
| 35   | 57 | 50   | 35   | 52.5 | 20.3 | 1.2 | 17              | 23                      | 201   | 5.0         | 20.5                    | C60H356-3AG05000    |
| 40   | 57 | 57   | 35   | 52.5 | 20.3 | 1.2 | 17              | 23                      | 205   | 4.5         | 22.5                    | C60H406-3AG05000    |
| 50   | 57 | 60   | 40   | 52.5 | 20.3 | 1.2 | 17              | 24                      | 214   | 4.0         | 25.5                    | C60H506-3AG05000    |
| 60   | 57 | 60   | 45   | 52.5 | 20.3 | 1.2 | 17              | 24                      | 220   | 3.5         | 28.0                    | C60H606-3AG05000    |

# CBB60H (THB)

## CBB60H series (THB)



◆ 产品尺寸及性能参数: Product Dimension and Characteristic Data:

| $U_{NDC}(70^{\circ}C): 1100Vdc/U_{NDC}(85^{\circ}C): 900Vdc$ |    |      |      |      |      |     |                        |                             |       |                      |                         |                     |
|--|----|------|------|------|------|-----|------------------------|-----------------------------|-------|----------------------|-------------------------|---------------------|
| C<br>( $\mu F$ )   | W  | H    | T    | P    | P1   | d   | dv/dt<br>(V/ $\mu s$ ) | $tg\delta \times (10^{-4})$ |       | ESR<br>(m $\Omega$ ) | I <sub>RMS</sub><br>(A) | 产品代码<br>Part number |
|  |    |      |      |      |      |     |                        | 1KHz                        | 10KHz |                      |                         |                     |
| 1.5  | 32 | 25   | 11   | 27.5 | -    | 0.8 | 80                     | 7                           | 38    | 21.5                 | 4.5                     | C60H155-3KB00000    |
| 2  | 32 | 28   | 14   | 27.5 | -    | 0.8 | 80                     | 7                           | 39    | 16.5                 | 5.5                     | C60H205-3KB00000    |
| 3  | 32 | 30   | 16   | 27.5 | -    | 0.8 | 80                     | 7                           | 41    | 11.5                 | 7.5                     | C60H305-3KB00000    |
| 4  | 32 | 33   | 18   | 27.5 | -    | 0.8 | 80                     | 7                           | 42    | 9.0                  | 9.0                     | C60H405-3KB00000    |
| 4  | 32 | 33   | 18   | 27.5 | 10.2 | 0.8 | 80                     | 7                           | 39    | 8.5                  | 9.0                     | C60H405-3KB02000    |
| 5  | 32 | 37   | 22   | 27.5 | -    | 0.8 | 80                     | 7                           | 45    | 8.0                  | 10.0                    | C60H505-3KB00000    |
| 5  | 32 | 37   | 22   | 27.5 | 10.2 | 0.8 | 80                     | 7                           | 41    | 7.5                  | 11.0                    | C60H505-3KB02000    |
| 6  | 32 | 37   | 22   | 27.5 | -    | 0.8 | 80                     | 7                           | 47    | 6.5                  | 11.5                    | C60H605-3KB00000    |
| 6  | 32 | 37   | 22   | 27.5 | 10.2 | 0.8 | 80                     | 7                           | 41    | 6.0                  | 12.0                    | C60H605-3KB02000    |
| 4  | 42 | 30   | 16   | 37.5 | -    | 1   | 40                     | 12                          | 89    | 19.0                 | 6.5                     | C60H405-3KE00000    |
| 6  | 42 | 33.5 | 18.5 | 37.5 | -    | 1   | 40                     | 12                          | 91    | 13.0                 | 8.5                     | C60H605-3KE00000    |
| 6  | 42 | 33.5 | 18.5 | 37.5 | 10.2 | 1   | 40                     | 12                          | 88    | 12.5                 | 8.5                     | C60H605-3KE02000    |
| 8  | 42 | 40   | 20   | 37.5 | -    | 1   | 40                     | 12                          | 94    | 10.0                 | 10.5                    | C60H805-3KE00000    |
| 8  | 42 | 40   | 20   | 37.5 | 10.2 | 1   | 40                     | 12                          | 90    | 9.5                  | 10.5                    | C60H805-3KE02000    |
| 10   | 42 | 44   | 24   | 37.5 | -    | 1   | 40                     | 13                          | 98    | 8.5                  | 12.0                    | C60H106-3KE00000    |
| 10   | 42 | 44   | 24   | 37.5 | 10.2 | 1   | 40                     | 12                          | 92    | 8.0                  | 12.5                    | C60H106-3KE02000    |
| 12   | 42 | 45   | 30   | 37.5 | 10.2 | 1.2 | 40                     | 12                          | 91    | 6.5                  | 14.5                    | C60H126-3KE02000    |
| 12   | 42 | 45   | 30   | 37.5 | 20.3 | 1.2 | 40                     | 12                          | 91    | 6.5                  | 14.5                    | C60H126-3KE05000    |
| 15   | 42 | 50   | 30   | 37.5 | 10.2 | 1.2 | 40                     | 12                          | 93    | 5.5                  | 16.5                    | C60H156-3KE02000    |
| 15   | 42 | 50   | 30   | 37.5 | 20.3 | 1.2 | 40                     | 12                          | 93    | 5.5                  | 16.5                    | C60H156-3KE05000    |
| 20   | 42 | 55   | 35   | 37.5 | 10.2 | 1.2 | 40                     | 12                          | 97    | 4.5                  | 20.0                    | C60H206-3KE02000    |
| 20   | 42 | 55   | 35   | 37.5 | 20.3 | 1.2 | 40                     | 12                          | 97    | 4.5                  | 20.0                    | C60H206-3KE05000    |
| 18   | 57 | 45   | 30   | 52.5 | 10.2 | 1.2 | 20                     | 20                          | 176   | 8.5                  | 14.5                    | C60H186-3KG02000    |
| 18   | 57 | 45   | 30   | 52.5 | 20.3 | 1.2 | 20                     | 20                          | 176   | 8.5                  | 14.5                    | C60H186-3KG05000    |
| 22   | 57 | 50   | 30   | 52.5 | 10.2 | 1.2 | 20                     | 20                          | 178   | 7.0                  | 16.5                    | C60H226-3KG02000    |
| 22   | 57 | 50   | 30   | 52.5 | 20.3 | 1.2 | 20                     | 20                          | 178   | 7.0                  | 16.5                    | C60H226-3KG05000    |
| 25   | 57 | 50   | 35   | 52.5 | 20.3 | 1.2 | 20                     | 21                          | 181   | 6.5                  | 18.0                    | C60H256-3KG05000    |
| 30   | 57 | 57   | 35   | 52.5 | 20.3 | 1.2 | 20                     | 21                          | 184   | 5.5                  | 20.5                    | C60H306-3KG05000    |
| 35   | 57 | 60   | 40   | 52.5 | 20.3 | 1.2 | 20                     | 22                          | 190   | 5.0                  | 22.5                    | C60H356-3KG05000    |
| 40   | 57 | 60   | 40   | 52.5 | 20.3 | 1.2 | 20                     | 22                          | 192   | 4.5                  | 24.0                    | C60H406-3KG05000    |
| 45   | 57 | 60   | 45   | 52.5 | 20.3 | 1.2 | 20                     | 22                          | 196   | 4.0                  | 26.0                    | C60H456-3KG05000    |





# CBB60H (THB)

## CBB60H series (THB)

### ◆ 产品尺寸及性能参数: Product Dimension and Characteristic Data:

| U <sub>NDc</sub> (70℃): 1200Vdc/U <sub>NDc</sub> (85℃): 1000Vdc |    |      |      |      |      |     |                 |                         |       |             |                         |                     |
|---|----|------|------|------|------|-----|-----------------|-------------------------|-------|-------------|-------------------------|---------------------|
| C<br>(μF)   | W  | H    | T    | P    | P1   | d   | dv/dt<br>(V/μs) | tgδ×(10 <sup>-4</sup> ) |       | ESR<br>(mΩ) | I <sub>RMS</sub><br>(A) | 产品代码<br>Part number |
|   |    |      |      |      |      |     |                 | 1KHz                    | 10KHz |             |                         |                     |
| 1   | 32 | 25   | 11   | 27.5 | -    | 0.8 | 90              | 6                       | 35    | 29.5        | 4.0                     | C60H105-3LB00000    |
| 2   | 32 | 28   | 14   | 27.5 | -    | 0.8 | 90              | 6                       | 36    | 15.5        | 6.0                     | C60H205-3LB00000    |
| 2.5   | 32 | 30   | 16   | 27.5 | -    | 0.8 | 90              | 6                       | 37    | 12.5        | 7.0                     | C60H255-3LB00000    |
| 3.5   | 32 | 33   | 18   | 27.5 | -    | 0.8 | 90              | 7                       | 39    | 9.5         | 8.5                     | C60H355-3LB00000    |
| 3.5   | 32 | 33   | 18   | 27.5 | 10.2 | 0.8 | 90              | 6                       | 36    | 9.0         | 9.0                     | C60H355-3LB02000    |
| 5   | 32 | 37   | 22   | 27.5 | -    | 0.8 | 90              | 7                       | 42    | 7.5         | 10.5                    | C60H505-3LB00000    |
| 5   | 32 | 37   | 22   | 27.5 | 10.2 | 0.8 | 90              | 6                       | 38    | 7.0         | 11.5                    | C60H505-3LB02000    |
| 3   | 42 | 30   | 16   | 37.5 | -    | 1   | 45              | 11                      | 81    | 23.0        | 5.5                     | C60H305-3LE00000    |
| 5   | 42 | 33.5 | 18.5 | 37.5 | -    | 1   | 45              | 11                      | 83    | 14.5        | 8.0                     | C60H505-3LE00000    |
| 5   | 42 | 33.5 | 18.5 | 37.5 | 10.2 | 1   | 45              | 11                      | 81    | 14.0        | 8.0                     | C60H505-3LE02000    |
| 6   | 42 | 40   | 20   | 37.5 | -    | 1   | 45              | 11                      | 85    | 12.0        | 9.5                     | C60H605-3LE00000    |
| 6   | 42 | 40   | 20   | 37.5 | 10.2 | 1   | 45              | 11                      | 82    | 11.5        | 9.5                     | C60H605-3LE02000    |
| 8   | 42 | 44   | 24   | 37.5 | -    | 1   | 45              | 12                      | 89    | 9.5         | 11.5                    | C60H805-3LE00000    |
| 8   | 42 | 44   | 24   | 37.5 | 10.2 | 1   | 45              | 11                      | 84    | 9.0         | 11.5                    | C60H805-3LE02000    |
| 9   | 42 | 44   | 24   | 37.5 | -    | 1   | 45              | 12                      | 90    | 8.5         | 12.0                    | C60H905-3LE00000    |
| 9   | 42 | 44   | 24   | 37.5 | 10.2 | 1   | 45              | 11                      | 84    | 8.0         | 12.5                    | C60H905-3LE02000    |
| 10  | 42 | 45   | 30   | 37.5 | 10.2 | 1.2 | 45              | 11                      | 84    | 7.0         | 14.0                    | C60H106-3LE02000    |
| 10  | 42 | 45   | 30   | 37.5 | 20.3 | 1.2 | 45              | 11                      | 84    | 7.0         | 14.0                    | C60H106-3LE05000    |
| 12  | 42 | 50   | 30   | 37.5 | 10.2 | 1.2 | 45              | 11                      | 85    | 6.0         | 16.0                    | C60H126-3LE02000    |
| 12  | 42 | 50   | 30   | 37.5 | 20.3 | 1.2 | 45              | 11                      | 85    | 6.0         | 16.0                    | C60H126-3LE05000    |
| 15  | 42 | 55   | 35   | 37.5 | 10.2 | 1.2 | 45              | 11                      | 87    | 5.0         | 18.5                    | C60H156-3LE02000    |
| 18  | 42 | 55   | 35   | 37.5 | 20.3 | 1.2 | 45              | 12                      | 88    | 4.5         | 20.0                    | C60H186-3LE05000    |
| 15  | 57 | 45   | 30   | 52.5 | 10.2 | 1.2 | 23              | 19                      | 161   | 9.0         | 14.0                    | C60H156-3LG02000    |
| 15  | 57 | 45   | 30   | 52.5 | 20.3 | 1.2 | 23              | 19                      | 161   | 9.0         | 14.0                    | C60H156-3LG05000    |
| 20  | 57 | 50   | 30   | 52.5 | 10.2 | 1.2 | 23              | 19                      | 164   | 7.0         | 16.5                    | C60H206-3LG02000    |
| 20  | 57 | 50   | 30   | 52.5 | 20.3 | 1.2 | 23              | 19                      | 164   | 7.0         | 16.5                    | C60H206-3LG05000    |
| 22  | 57 | 50   | 35   | 52.5 | 20.3 | 1.2 | 23              | 19                      | 165   | 6.5         | 18.0                    | C60H226-3LG05000    |
| 25  | 57 | 57   | 35   | 52.5 | 20.3 | 1.2 | 23              | 19                      | 168   | 6.0         | 19.5                    | C60H256-3LG05000    |
| 30  | 57 | 60   | 40   | 52.5 | 20.3 | 1.2 | 23              | 20                      | 173   | 5.0         | 22.5                    | C60H306-3LG05000    |
| 35  | 57 | 60   | 45   | 52.5 | 20.3 | 1.2 | 23              | 20                      | 177   | 4.5         | 24.5                    | C60H356-3LG05000    |

备注:

“-” : 客户要求的容量偏差

ESR 值为 f=10KHz 下的典型值

I<sub>RMS</sub> 值为 f=10KHz、T<sub>amb</sub>=70℃、散热条件 10W/m<sup>2</sup>/℃、  
ΔT<sub>case</sub>≤20℃的最大电流有效值。

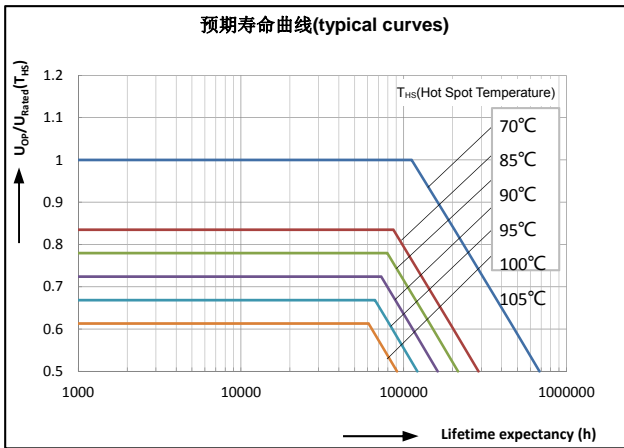
“-”=custom's capacitor tolerance code, J=±5%, K=±10%

ESR typical values at 10KHz

I<sub>RMS</sub> is the maximum R.M.S current at 10KHz、T<sub>amb</sub>=70℃、  
ΔT<sub>case</sub>≤20℃.( Coefficient of heat dissipation: 10W/m<sup>2</sup>/℃)

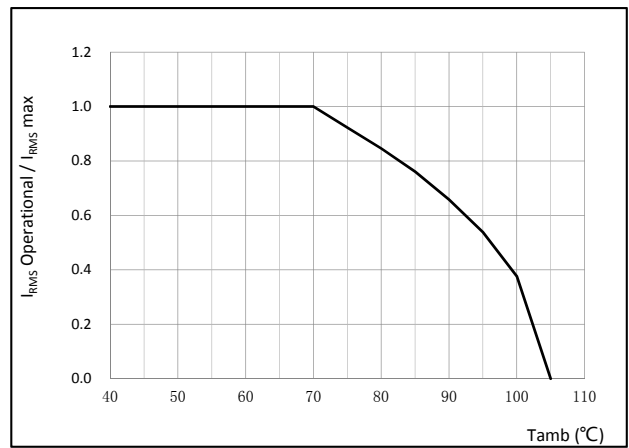
◆ 预期寿命曲线

Expected Lifetime Curves:



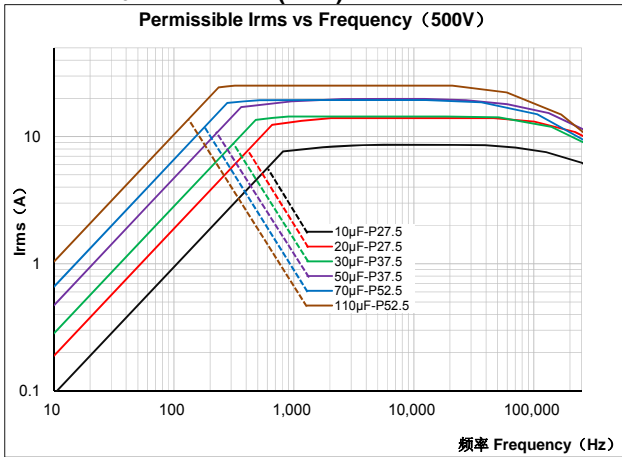
◆ 纹波电流降额曲线

$I_{RMS}$  Derating vs Ambient Temperature:

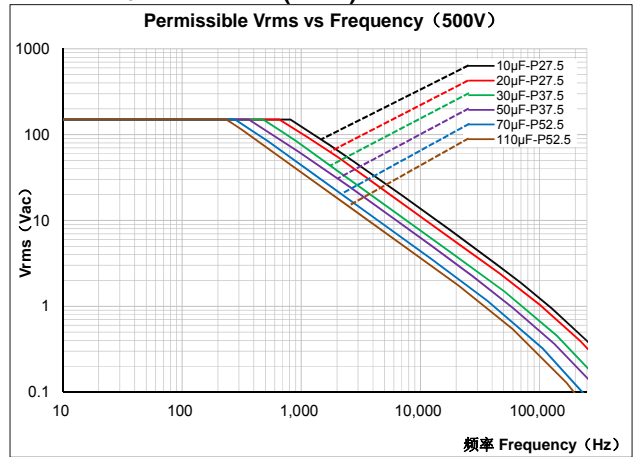


◆ 电流频率曲线 Permissible Irms vs Frequency

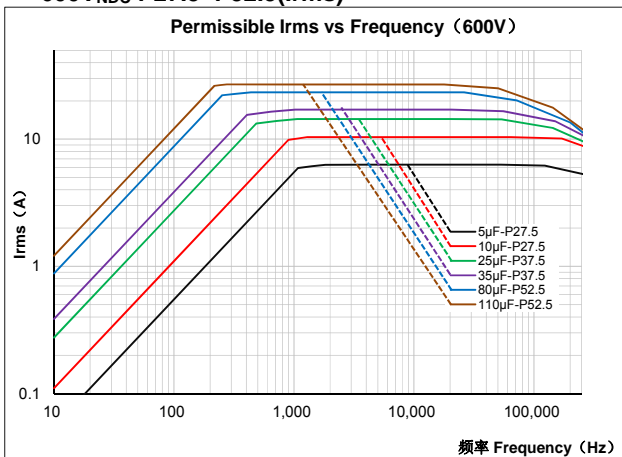
500V<sub>NDC</sub> P27.5~P52.5(I<sub>rms</sub>)



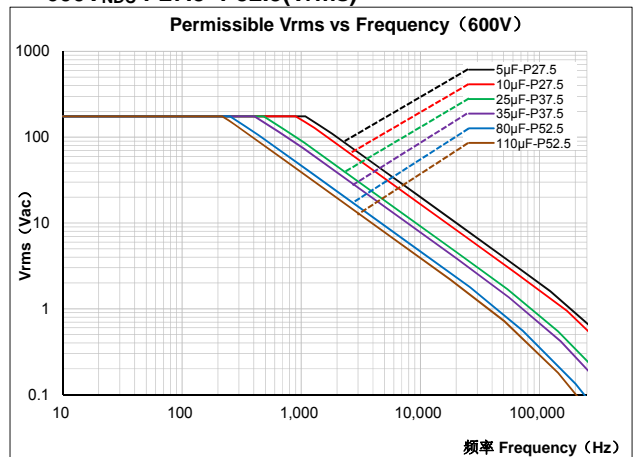
500V<sub>NDC</sub> P27.5~P52.5(V<sub>rms</sub>)



600V<sub>NDC</sub> P27.5~P52.5(I<sub>rms</sub>)



600V<sub>NDC</sub> P27.5~P52.5(V<sub>rms</sub>)



注:

纹波电流或纹波电压值基于  $T_{amb}=70^{\circ}C$  条件下;  
产品散热系数:  $10W/m^2/^{\circ}C$ ;  
当  $f \geq 100KHz$ ,  $I_{rms}$  和  $V_{rms}$  仅供参考。

Note:

Permissible  $V_{rms}$  &  $I_{rms}$  curves frequency  $f$  at  $T_{amb}=70^{\circ}C$  ;  
Coefficient of heat dissipation:  $10W/m^2/^{\circ}C$  ;  
At  $f \geq 100KHz$ ,  $I_{rms}$  &  $V_{rms}$  are only for reference.

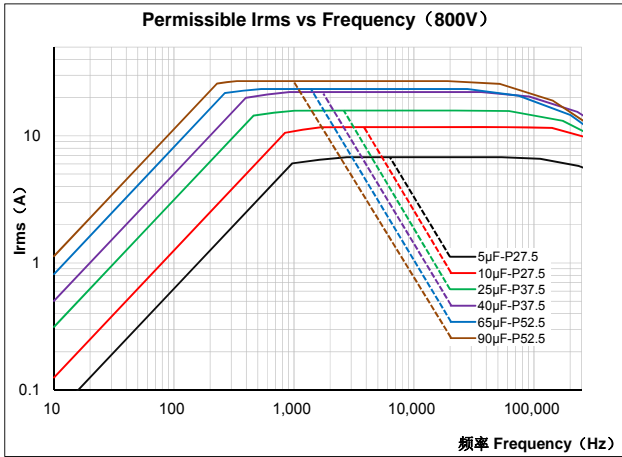


# CBB60H (THB)

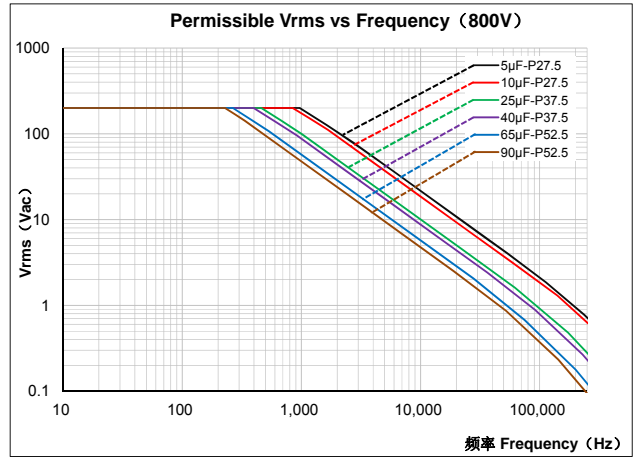
## CBB60H series (THB)

### ◆有效值电流频率曲线 Permissible Vrms & Irms vs Frequency

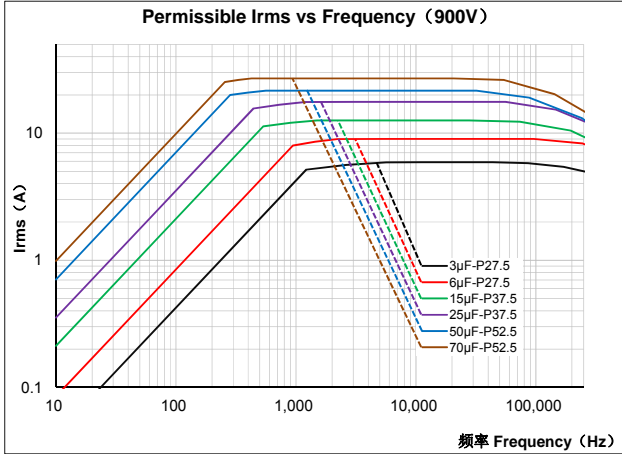
800V<sub>NDC</sub> P27.5~P52.5(Irms)



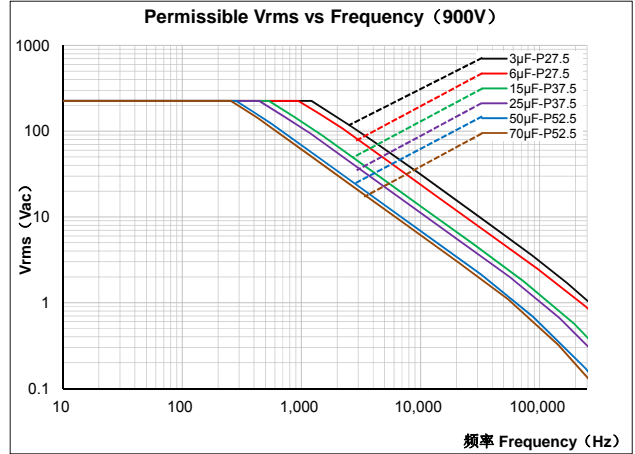
800V<sub>NDC</sub> P27.5~P52.5(Vrms)



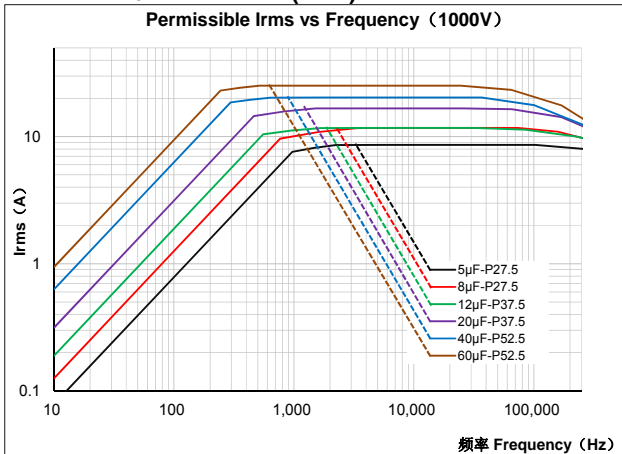
900V<sub>NDC</sub> P27.5~P52.5(Irms)



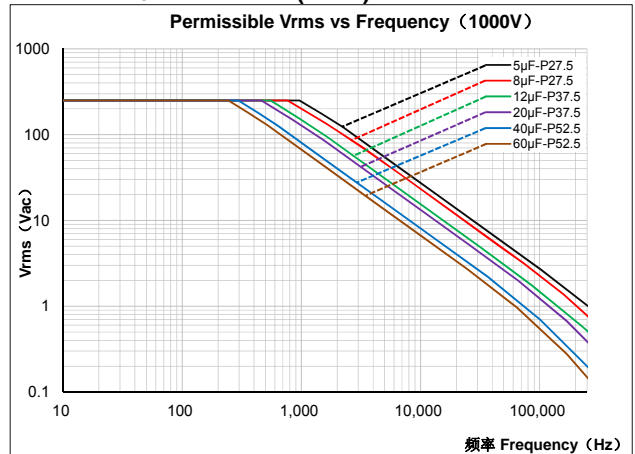
900V<sub>NDC</sub> P27.5~P52.5(Vrms)



1000V<sub>NDC</sub> P27.5~P52.5(Irms)



1000V<sub>NDC</sub> P27.5~P52.5(Vrms)



注:

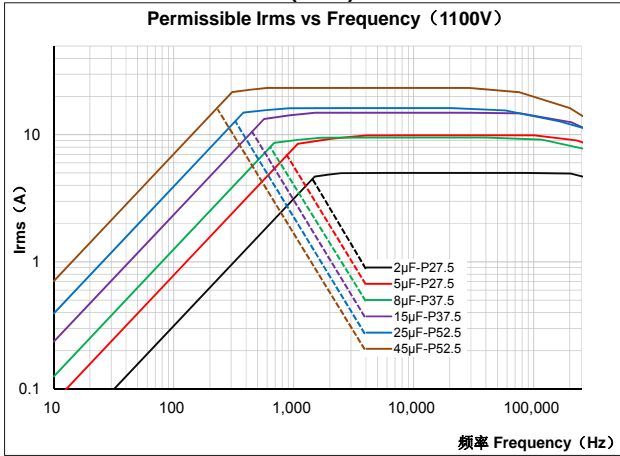
纹波电流或纹波电压值基于  $T_{amb}=70^{\circ}C$  条件下;  
 产品散热系数:  $10W/m^2/^{\circ}C$ ;  
 当  $f \geq 100KHz$ ,  $I_{rms}$  和  $V_{rms}$  仅供参考。

Note:

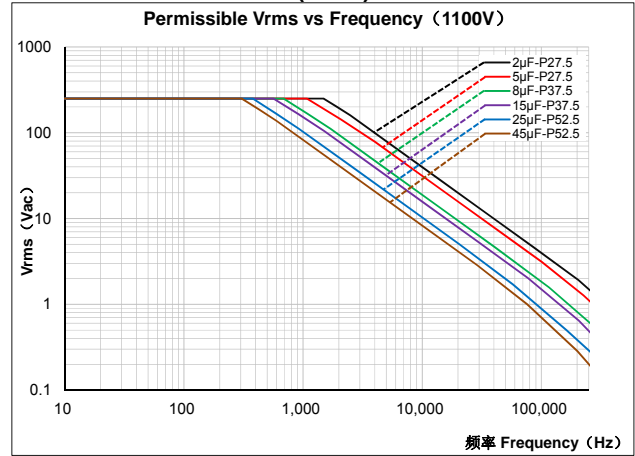
Permissible Vrms & Irms curves frequency  $f$  at  $T_{amb}=70^{\circ}C$ ;  
 Coefficient of heat dissipation:  $10W/m^2/^{\circ}C$ ;  
 At  $f \geq 100KHz$ ,  $I_{rms}$  &  $V_{rms}$  are only for reference.

◆有效值电流频率曲线 Permissible Vrms & Irms vs Frequency

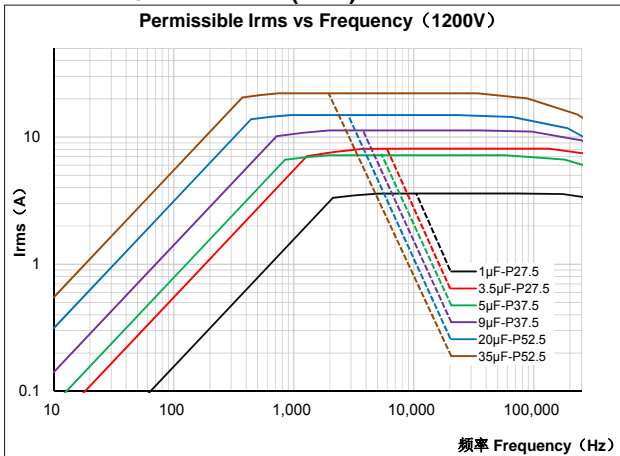
1100V<sub>NDC</sub> P27.5~P52.5(Irms)



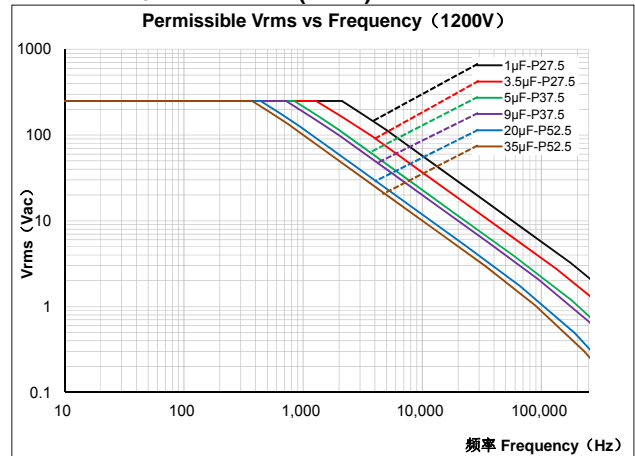
1100V<sub>NDC</sub> P27.5~P52.5(Vrms)



1200V<sub>NDC</sub> P27.5~P52.5(Irms)



1200V<sub>NDC</sub> P27.5~P52.5(Vrms)



注:

纹波电流或纹波电压值基于  $T_{amb}=70^{\circ}C$  条件下;  
产品散热系数:  $10W/m^2/^{\circ}C$ ;  
当  $f \geq 100KHz$ ,  $I_{rms}$  和  $V_{rms}$  仅供参考。

Note:

Permissible Vrms & Irms curves frequency  $f$  at  $T_{amb}=70^{\circ}C$ ;  
Coefficient of heat dissipation:  $10W/m^2/^{\circ}C$ ;  
At  $f \geq 100KHz$ ,  $I_{rms}$  &  $V_{rms}$  are only for reference.



# CBB60H (THB)

## CBB60H series (THB)

### ◆可靠性: Reliability.

| Test description                        | Reference      | Test conditions  | Determine criteria   |
|---|----------------|--|--|
| 极间耐压<br>Voltage test between terminals  | IEC 61071      | 1.5 x U <sub>NDC</sub> at Tamb<br>Duration: 60 s   | No visible damage<br> ΔC/C : ≤0.5%<br>Tanδ: ≤1.2 initial tanδ+ 1×10 <sup>-4</sup> at10KHz<br>R <sub>ins</sub> : ≥ 50% of IR limit  |
| 耐焊接热<br>Resistance to soldering heat    | IEC 60068-2-20 | Solder bath temperature at 260°C±5°C,<br>Immersion time: 10s±1s  | No visible damage<br> ΔC/C : ≤0.5%<br>Increase of tan δ: ≤ 50 ×10 <sup>-4</sup> at10KHz  |
| 引出端强度<br>Robustness of terminations     | IEC 60068-2-21 | Wire diameter & Tensile force  | No visible damage  |
|   |                | 0.5 < d <sub>i</sub> ≤ 0.8 mm 10N  |  |
|   |                | 0.8 < d <sub>i</sub> ≤ 1.25 mm 20N   |  |
| 放电实验<br>Surge discharge test            | IEC 61071      | 1.1 x U <sub>NDC</sub><br>Number of discharges: 5(within 10 minutes)   | No visible damage<br> ΔC/C : ≤1.0%<br>Tanδ: ≤1.2 initial tanδ+ 1×10 <sup>-4</sup> at10KHz<br>R <sub>ins</sub> : ≥ 50% of IR limit  |
| 温度变化<br>Change of temperature           | IEC 60068-2-14 | T <sub>max.</sub> =85 °C; T <sub>min.</sub> = - 40 °C<br>Transition time: 1 h, equivalent to 1°C/min<br>5 cycles   | No visible damage<br> ΔC/C : ≤2.0%<br>Increase of tan δ: ≤ 150 ×10 <sup>-4</sup> at10KHz<br>R <sub>ins</sub> : 50% of IR limit     |
| 耐湿性<br>Damp heat steady                 | IEC 60068-2-78 | T <sub>max.</sub> = 40 °C<br>RH = 93 %<br>Duration 56 days   | No visible damage<br> ΔC/C : ≤ 3.0 %<br>Increase of tan δ: ≤ 20 ×10 <sup>-4</sup> at 10KHz<br>R <sub>ins</sub> : ≥ 50% of IR limit |
| 耐湿负荷<br>Biased humidity                 | AEC-Q200       | T =40 °C<br>RH = 93 % at U <sub>NDC</sub> (70°C)<br>Duration: 1000h  | NO visible damage<br> ΔC/C : ≤ 5 %<br> Δtan δ / tan δ : ≤ 200% at 10KHz<br>R <sub>ins</sub> : ≥ 200MΩ                              |
|   |                | T =85 °C<br>RH = 85 % at U <sub>NDC</sub> (85°C)<br>Duration: 1000h  | No visible damage<br> ΔC/C : ≤5%<br> Δtan δ / tan δ : ≤ 200% at 10KHz<br>R <sub>ins</sub> : ≥100 MΩ                                |
| 耐久性<br>Endurance test between terminals | IEC 61071      | 1.3 ×U <sub>NDC</sub> at T <sub>max.</sub> = 70 °C,<br>Duration 500 h 1000 × discharge at 1.4 × I (repetitive peak current in continuous operation)<br>1.3× U <sub>NDC</sub> atT <sub>max.</sub> = 70 °C<br>Duration 500 h | No visible damage<br> ΔC/C : ≤3.0%<br>Increase of tan δ: ≤ 150 ×10 <sup>-4</sup> at10KHz<br>R <sub>ins</sub> : 50% of IR limit     |
| 自愈性测试<br>Self healing test              | IEC 61071      | 1.5 ×U <sub>NDC</sub> Duration 10 sec ,<br>Number of Self healing ≤ 5,<br>increase the voltage at 100 V/s till 5, with a max. of 2.5×U <sub>NDC</sub><br>for a duration of 10 sec  | No visible damage<br> ΔC/C : ≤ 0.5 %<br>tan δ: ≤ 1.1 initial tan δ + 1×10 <sup>-4</sup> at10KHz                                    |
| 振动<br>Vibration                         | IEC 60068      | f=10 Hz to 55 Hz<br>a=±0.35mm<br>Test duration per axis = 10 frequency cycles (3 axes offset from each other by 90°). 1 octave/min, the total times are 135 min for 3axes  | No visible damage  |