



Main applications:

Type CBB60 capacitors are designed to be used in many kinds of compact electric appliance: washing machine, cleaning machine, micro water pump, and so on.

Advantages:

- Low DF (dissipation factor)
- Flame retardant plastic box (PBT,PP or ABS)
- Light weight and cost effective
- Top security
- High insulation resistance
- UL-810 construction certified
- RoHS compliant

Specifications:

Capacitance Range: 1.0uF to 100uF

Capacitance Tolerance: +/-10% standard

AC Voltage Range: 250VAC to 500VAC

Voltage Testing:

T-T(terminal to terminal): $2.0U_n + 1000V_{ac}/1S$

T-C(terminal to case): $1.75U_n/1S$

Insulation resistance:

T-T(terminal to terminal): more than 1000 Mohm uF

T-C(terminal to case): 10 MΩ Measured at 100V.AC, 60s. And 25

Frequency: 50/60Hz

DF(dissipation factor): not greater than 0.1% when measured at or referred to 60Hz and 25

Temperature Range: -40C to +70C standard

Approval Certification: UL, cUL, CE, VDE, TUV, CQC

Construction characters:

MPP film: The capacitors' windings are manufactured with MPP film which is metalized with a thin self-healing mixture of zinc and aluminum directly on one side of the polypropylene film under vacuum. The film is wound into stable cylindrical windings. The ends of the capacitor windings are sprayed with metal powder which facilitating a high current load and ensuring a low-inductance connection between the terminals and windings.

No oil, filled with epoxy resin: The capacitors are filled with epoxy resin which is flame retardant and compliant with UL94V-0.

Lead types: Double quick connector; wire leads; quadruple quick connector; hook up wire; harness.

Knowledge points:

"Self-healing": CBB60 is a kind of self-healing capacitor. In the event of a voltage breakdown in the dielectric the metal layers around the breakdown channel are evaporated by the temperature of the electric arc that forms between the electrodes. They are removed within a few microseconds and pushed apart by the overpressure generated in the center of the breakdown spot. An insulation area is formed which is reliably resistive and voltage proof for all operating requirements of the capacitor. The capacitor remains fully functional during and after the breakdown.

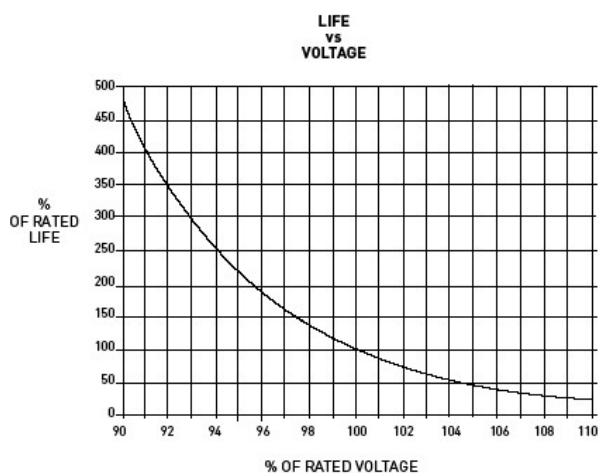
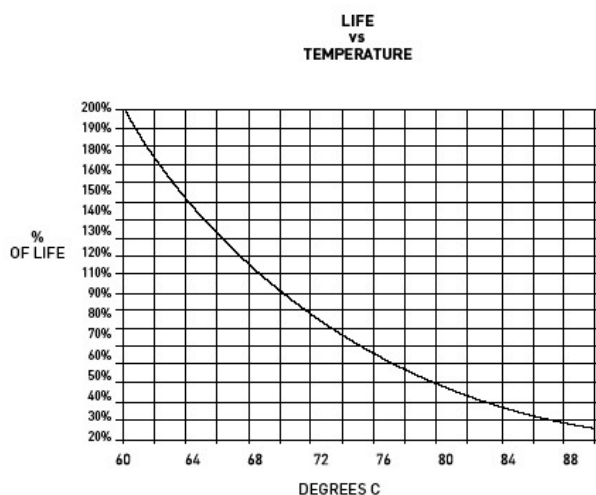
Mounting: All capacitors can be mounted in any position.

Service life: In accordance with applicable standards (such as IEC 60252-1-2010), capacitor's service life is classified in some grades (see the right chart).

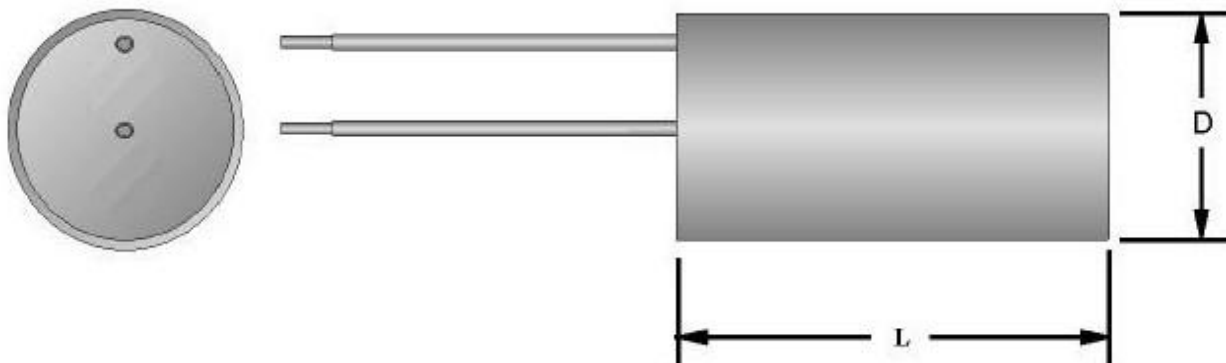
| Application Class | Service Life |
|-------------------|--------------|
| A | 30,000h |
| B | 10,000h |
| C | 3,000h |
| D | 1,000h |

Capacitance's tolerance under different temp.: The capacitance of all capacitors should be within the specified tolerance limits of the nominal rating when measured at temperature of +25C. When measured at the operating case temperature limits, the capacitance of the capacitors will not change by more than -5% to +2% of the +25C capacitance value. Capacitance measurements shall be made on an AC bridge at a frequency of 60Hz.

Main factors influencing capacitor's life: The service life of a capacitor will be shortened by exceeding the voltage and temperature rating.



RoHS compliant: It means the capacitor complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), Poly-Brominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).



Size list: here only sizes of 250V and 400V given for example.

| Cap. (uF) | 250VAC | | 400VAC | |
|-----------|------------|------------|------------|------------|
| | Size D(mm) | Size L(mm) | Size D(mm) | Size L(mm) |
| 5 | 30 | 70 | 30 | 70 |
| 10 | 35 | 70 | 34 | 75 |
| 15 | 35 | 70 | 40 | 70 |
| 20 | 35 | 70 | 42 | 80 |
| 25 | 40 | 70 | 42 | 80 |
| 30 | 42 | 80 | 50 | 75 |
| 35 | 42 | 80 | 50 | 75 |
| 40 | 40 | 90 | 50 | 100 |
| 45 | 40 | 90 | 50 | 100 |
| 50 | 40 | 90 | 50 | 125 |
| 60 | 50 | 100 | 50 | 135 |
| 70 | 50 | 100 | 55 | 125 |
| 80 | 50 | 100 | 55 | 125 |
| 90 | 50 | 100 | 55 | 135 |
| 100 | 50 | 125 | 60 | 135 |