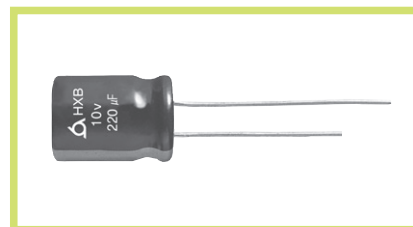


## HXB Series

• 105°C 1,000~2,000Hrs assured.

- Non-solvent proof.
- Low Impedance, Long Life.
- Height 7mm.
- For LED TV PSU, DVD Driver.
- RoHS compliant.
- Halogen-free capacitors are also available.



### SPECIFICATIONS

| Item  | Characteristics  |      |      |      |       |            |      |                  |
|---|--|------|------|------|-------|------------|------|------------------|
| Rated Voltage Range                                   | 6.3 ~ 50 V <sub>DC</sub>   |      |      |      |       |            |      |                  |
| Operating Temperature Range                           | -40 ~ +105°C   |      |      |      |       |            |      |                  |
| Capacitance Tolerance                                 | ±20%(M) (at 20°C, 120Hz)   |      |      |      |       |            |      |                  |
| Leakage Current                                       | I=0.01CV(µA) or 3µA, whichever is greater.<br>Where, I:Max. Leakage current(µA), C:Nominal capacitance(µF), V:Rated voltage(V <sub>DC</sub> )<br>(at 20°C, 2 minutes)  |      |      |      |       |            |      |                  |
| Dissipation Factor(Tanδ)                              | Rated voltage(V <sub>DC</sub> )  | 6.3  | 10   | 16   | 25    | 35         | 50   | (at 20°C, 120Hz) |
|   | Tanδ(Max.)   | 0.22 | 0.19 | 0.16 | 0.14  | 0.12       | 0.10 |                  |
| Temperature Characteristics<br>(Max. Impedance ratio) | Rated voltage(V <sub>DC</sub> )  | 6.3  | 10   | 16   | 25~50 | (at 120Hz) |      |                  |
|   | Z(-25°C)/Z(20°C)   | 2    | 2    | 2    | 2     |            |      |                  |
|   | Z(-40°C)/Z(20°C)   | 6    | 4    | 3    | 3     |            |      |                  |
| Load Life   | The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 105°C. (where 1,000 hours for ø4)   |      |      |      |       |            |      |                  |
| Shelf Life  | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. |      |      |      |       |            |      |                  |
|   | Capacitance change ≤ ±25% of the initial value<br>Tanδ ≤ 200% of the initial specified value<br>Leakage current ≤ The initial specified value  |      |      |      |       |            |      |                  |
| Others  | Satisfied characteristics KS C IEC 60384-4   |      |      |      |       |            |      |                  |

### RATINGS OF HXB Series

| V <sub>DC</sub> / µF | 6.3            |                | 10             |                | 16             |                | 25           |              | 35           |                | 50           |  |
|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|--------------|----------------|--------------|--|
| 1                    |                |                |                |                |                |                |              |              |              |                | 4X7 3.00 53  |  |
| 2.2                  |                |                |                |                |                |                |              |              |              |                | 5X7 2.20 80  |  |
| 4.7                  |                |                |                |                |                |                |              |              |              |                | 4X7 2.50 70  |  |
|                      |                |                |                |                |                |                |              |              |              |                | 5X7 1.15 120 |  |
| 10                   |                |                |                |                |                |                |              |              |              |                | 4X7 2.00 85  |  |
|                      |                |                |                |                |                |                |              |              |              |                | 5X7 0.70 165 |  |
| 22                   |                |                |                |                |                |                |              |              | 5X7 0.70 165 | 6.3X7 0.35 260 |              |  |
| 33                   | 4X7 1.50 130   | 4X7 1.50 130   |                |                |                |                |              |              |              |                |              |  |
|                      | 5X7 0.70 165   | 5X7 0.70 165   |                |                |                |                |              |              |              |                |              |  |
| 47                   | 5X7 0.70 165   | 5X7 0.70 165   | 5X7 0.70 165   | 5X7 0.70 165   |                |                |              |              |              |                |              |  |
|                      | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 8X7 0.17 450 | 8X7 0.17 450 |              |                |              |  |
| 68                   | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 8X7 0.17 450 | 8X7 0.17 450 |              |                |              |  |
|                      | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 8X7 0.17 450 | 8X7 0.17 450 |              |                |              |  |
| 100                  | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 8X7 0.17 450   |              |              |              |                |              |  |
| 150                  | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 6.3X7 0.35 260 | 8X7 0.17 450   |                |              |              |              |                |              |  |
| 220                  | 8X7 0.17 450   | 8X7 0.17 450   |                |                |                |                |              |              |              |                |              |  |
| 330                  | 8X7 0.17 450   |                |                |                |                |                |              |              |              |                |              |  |

Rated Ripple Current (mA rms/105°C, 100kHz)  
 Impedance (Ω max./20°C, 100kHz)  
 Case Size øD×L(mm)

### RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

| Cap.(µF) \ Freq.(Hz) | 120  | 1k   | 10k  | 50k  | 100k |
|----------------------|------|------|------|------|------|
| 1 ~ 150              | 0.40 | 0.75 | 0.90 | 0.95 | 1.00 |
| 220 ~ 330            | 0.50 | 0.85 | 0.94 | 0.97 | 1.00 |

### DIMENSIONS OF HXB Series

Unit(mm)

