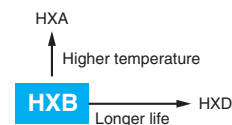


## HXB Series

- High reliability and high voltage are realized by hybrid electrolyte
- Endurance with ripple current : 5,000 hours at 105°C
- For high reliability applications.  
(Automotive equipment, Base station equipment, etc.)
- RoHS2 Compliant
- Halogen Free
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

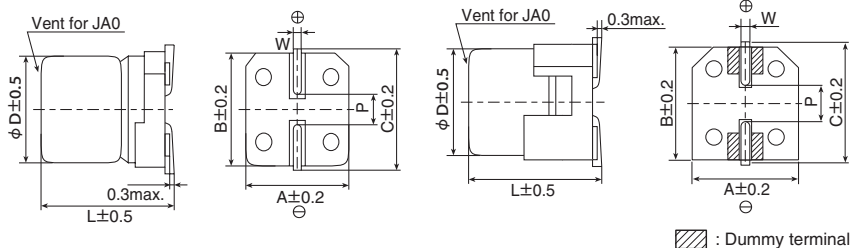


### SPECIFICATIONS

| Items  | Characteristics  |                                       |
|--|--|---------------------------------------|
| Category   | -55 to +105°C  |                                       |
| Temperature Range                                      | 80V <sub>ac</sub>  |                                       |
| Rated Voltage Range                                    | ±20% (M)   |                                       |
| Capacitance Tolerance                                  | (at 20°C, 120Hz)   |                                       |
| Leakage Current  | I=0.01CV or 3 μA, whichever is greater<br>Where, I : Max. leakage current (μA), C: Nominal capacitance(μF), V : Rated voltage(V)<br>(at 20°C after 2 minutes)  |                                       |
| Dissipation Factor (tan δ)                             | Rated voltage(V <sub>ac</sub> )  | 80V                                   |
|  | tan δ (Max.)   | 0.08                                  |
|  | (at 20°C, 120Hz)   |                                       |
| Low Temperature Characteristics (Max. Impedance Ratio) | Z(-25°C)/Z(+20°C) ≤ 1.5<br>Z(-55°C)/Z(+20°C) ≤ 2.0<br>(at 100kHz)  |                                       |
| Endurance  | The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 105 °C.   |                                       |
|  | Capacitance change   | ≤ ±30% of the initial value           |
|  | D.F. (tan δ)   | ≤ 200% of the initial specified value |
|  | ESR  | ≤ 200% of the initial specified value |
|  | Leakage current  | ≤ The initial specified value         |
| 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. Before the measurement, the capacitor shall be preconditioned by applying voltage according to item 4.1 of JIS C 5101-4. |                                       |
|  | Capacitance change   | ≤ ±30% of the initial value           |
|  | D.F. (tan δ)   | ≤ 200% of the initial specified value |
|  | ESR  | ≤ 200% of the initial specified value |
|  | Leakage current  | ≤ The initial specified value         |

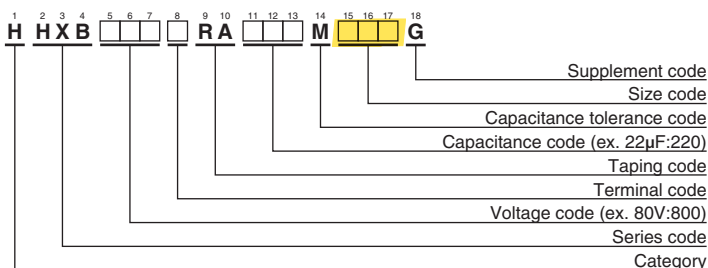
### DIMENSIONS [mm]

- Terminal Code : A
- Size code : HA0 and JA0
- Terminal Code : G(Vibration resistant structure)
- Size code : HA0 and JA0



| Size Code | φD | L    | A    | B    | C    | W          | P   |
|-----------|----|------|------|------|------|------------|-----|
| HA0       | 8  | 10.0 | 8.3  | 8.3  | 9.0  | 0.7 to 1.1 | 3.1 |
| JA0       | 10 | 10.0 | 10.3 | 10.3 | 11.0 | 0.7 to 1.1 | 4.5 |

### PART NUMBERING SYSTEM



Please refer to "Product code guide (conductive polymer hybrid type)"

### MARKING



- Rated voltage symbol

| Rated voltage (V <sub>ac</sub> ) | Symbol |
|----------------------------------|--------|
| 80                               | K      |

## HXB Series

### ◆STANDARD RATINGS

| WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Size code | ESR<br>(mΩ max./20°C, 100kHz) | Rated ripple current<br>(mA <sub>rms</sub> /105°C, 100kHz) | Part No.           |
|--------------------------|-------------|-----------|-------------------------------|--|--------------------|
| 80                       | 22          | HA0       | 45                            | 1,600  | HHXB800□RA220MHA0G |
|                          | 39          | JA0       | 35                            | 1,700  | HHXB800□RA390MJA0G |

□ : Enter the appropriate terminal code.

### ◆RATED RIPPLE CURRENT MULTIPLIERS

#### ●Frequency Multipliers

| Capacitance(μF) \ Frequency(Hz) | 120  | 1k   | 5k   | 10k  | 20k  | 30k  | 100k to 500k |
|---------------------------------|------|------|------|------|------|------|--------------|
| 22                              | 0.07 | 0.30 | 0.50 | 0.60 | 0.70 | 0.75 | 1.00         |
| 39                              | 0.10 | 0.40 | 0.60 | 0.70 | 0.80 | 0.80 | 1.00         |