

**HXA** *Upgrade!*  
Series

- High reliability and high voltage are realized by hybrid electrolyte
- Endurance with ripple current : 4,000 hours at 125°C
- For high temperature and 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.

HXA

↑ Higher temperature  
HXB

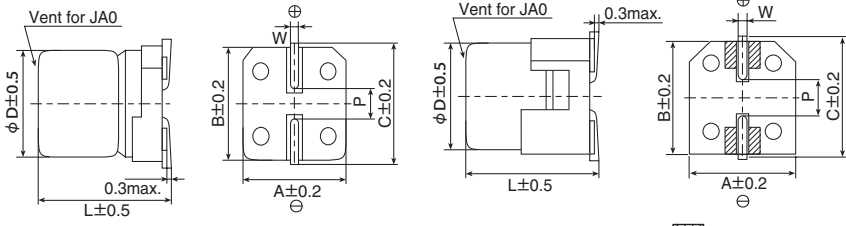


◆ SPECIFICATIONS

| Items  | Characteristics   |
|--|---|
| Category   |   |
| Temperature Range                                      | -55 to +125°C   |
| Rated Voltage Range                                    | 80V <sub>dc</sub>   |
| Capacitance Tolerance                                  | ±20% (M) (at 20°C, 120Hz)   |
| Leakage Current  | I=0.01CV or 3μA, whichever is greater<br>Where, I : Max. leakage current (μA), C: Nominal capacitance(μF), V : Rated voltage(V) (at 20°C after 2 minutes)   |
| Dissipation Factor (tan δ)                             | Rated voltage(V <sub>dc</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 (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 4,000 hours at 125°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 125°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]

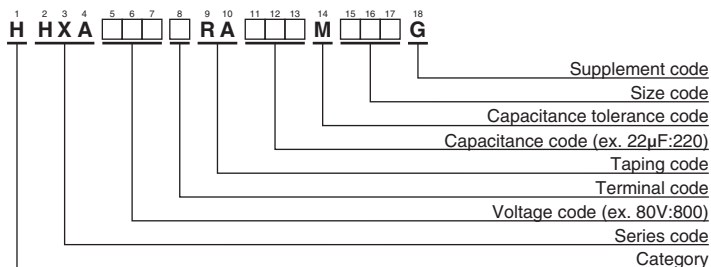
- Terminal Code : A
- Size code : HA0 and JA0
- Terminal Code : G (Vibration resistant structure)
- Size code : HA0 and JA0



| 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 |

▨ : Dummy terminals

◆ PART NUMBERING SYSTEM



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

◆ MARKING



- Rated voltage symbol

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



### ◆STANDARD RATINGS

| WV (V <sub>dc</sub> ) | Cap (μF) | Size code | ESR (mΩ max./20°C, 100kHz) | Rated ripple current (mA <sub>rms</sub> /125°C, 100kHz) | Part No.           |
|-----------------------|----------|-----------|----------------------------|---|--------------------|
| 80                    | 22       | HA0       | 45                         | 1,100   | HHXA800□RA220MHA0G |
|                       | 39       | JA0       | 35                         | 1,200   | HHXA800□RA390MJA0G |
|                       | 47       | JA0       | 33                         | 1,700   | HHXA800□RA470MJA0G |

□ : 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 to 47                        | 0.10 | 0.40 | 0.60 | 0.70 | 0.80 | 0.80 | 1.00         |

# Mouser Electronics

Authorized Distributor

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## United Chemi-Con (UCC):

[HHXA250ARA101MF80G](#) [HHXA160ARA471MJA0G](#) [HHXA350ARA151MHA0G](#) [HHXA630ARA330MHA0G](#)  
[HHXA500ARA220MF61G](#) [HHXA500ARA101MJA0G](#) [HHXA250ARA560MF61G](#) [HHXA630ARA220MF80G](#)  
[HHXA160ARA820MF61G](#) [HHXA350ARA271MJA0G](#) [HHXA500ARA330MF80G](#) [HHXA350ARA470MF61G](#)  
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