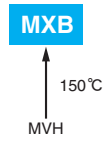


Alchip™-MXB Series

- Endurance : 1,000 hours at 150°C
- Rated voltage range : 25 & 35V, Nominal capacitance range : 330 to 2,400μF
- For automobile modules and other high temperature applications.
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES).
- Vibration resistant structure.
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.



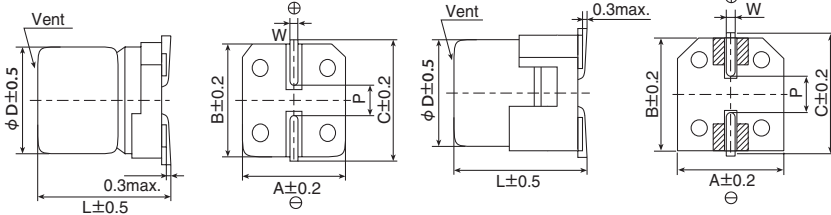
◆ SPECIFICATIONS

| Items | Characteristics | | |
|---|---|--------------------------------------|------|
| Category | -40 to +150°C | | |
| Temperature Range | -40 to +150°C | | |
| Rated Voltage Range | 25, 35V _{dc} | | |
| Capacitance Tolerance | ±20%(M) (at 20°C, 120Hz) | | |
| Leakage Current | I=0.03CV 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 _{dc}) | 25V | 35V |
| | tan δ (Max.) | 0.16 | 0.14 |
| | When nominal capacitance exceeds 1,000 μF, add 0.02 to the value above for each 1,000 μF increase. (at 20°C, 120Hz) | | |
| Low Temperature Characteristics (Max. impedance Ratio) | Rated voltage(V _{dc}) | 25V | 35V |
| | Z(-25°C)/Z(+20°C) | 2 | 2 |
| | Z(-40°C)/Z(+20°C) | 4 | 3 |
| (at 120Hz) | | | |
| Endurance | The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 1,000 hours at 150°C. | | |
| | Capacitance change | ≤ ±30% of the initial value | |
| | D.F. (tan δ) | ≤300% 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 150°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) | ≤300% of the initial specified value | |
| | Leakage current | ≤ The initial specified value | |

◆ DIMENSIONS [mm]

- Terminal Code : A
- Size code : KE0 to MNO

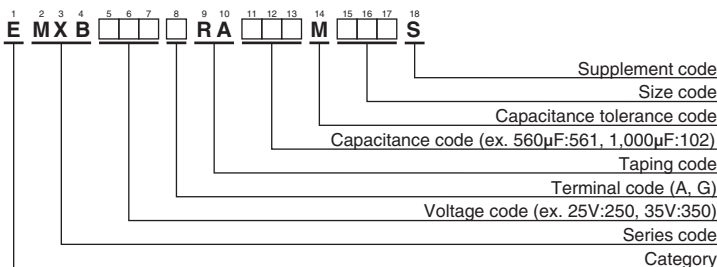
- Terminal Code : G (Vibration resistant structure)
- Size code : KE0 to MNO



| Size code | φD | L | A | B | C | W | P |
|-----------|------|------|------|------|------|------------|-----|
| KE0 | 12.5 | 13.5 | 13.0 | 13.0 | 13.7 | 1.0 to 1.3 | 4.2 |
| KG5 | 12.5 | 16.0 | 13.0 | 13.0 | 13.7 | 1.0 to 1.3 | 4.2 |
| LH0 | 16 | 16.5 | 17.0 | 17.0 | 18.0 | 1.0 to 1.3 | 6.5 |
| LNO | 16 | 21.5 | 17.0 | 17.0 | 18.0 | 1.0 to 1.3 | 6.5 |
| MH0 | 18 | 16.5 | 19.0 | 19.0 | 20.0 | 1.0 to 1.3 | 6.5 |
| MNO | 18 | 21.5 | 19.0 | 19.0 | 20.0 | 1.0 to 1.3 | 6.5 |

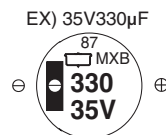
▨ : Dummy terminals

◆ PART NUMBERING SYSTEM



Please refer to "Product code guide (surface mount type)"

◆ MARKING



Alchip™-**MXB**Series

◆STANDARD RATINGS

| WV (V _{dc}) | Cap (μF) | Size code | ESR (Ω max./100kHz) | | Rated ripple current (mA _{rms} /150°C, 100kHz) | Part No. |
|--------------------------|-------------|-----------|---------------------|-------|--|--------------------|
| | | | 20°C | -40°C | | |
| 25 | 560 | KE0 | 0.14 | 2.1 | 860 | EMXB250□RA561MKE0S |
| | 750 | KG5 | 0.11 | 1.5 | 1,000 | EMXB250□RA751MKG5S |
| | 1,000 | LH0 | 0.10 | 1.5 | 1,120 | EMXB250□RA102MLH0S |
| | 1,500 | MH0 | 0.10 | 1.5 | 1,210 | EMXB250□RA152MMH0S |
| | 1,800 | LN0 | 0.058 | 0.87 | 1,460 | EMXB250□RA182MLN0S |
| | 2,400 | MN0 | 0.058 | 0.87 | 1,560 | EMXB250□RA242MMN0S |
| 35 | 330 | KE0 | 0.27 | 8.1 | 670 | EMXB350□RA331MKE0S |
| | 390 | KG5 | 0.21 | 6.3 | 800 | EMXB350□RA391MKG5S |
| | 560 | LH0 | 0.16 | 4.8 | 920 | EMXB350□RA561MLH0S |
| | 750 | MH0 | 0.13 | 3.9 | 1,000 | EMXB350□RA751MMH0S |
| | 910 | LN0 | 0.10 | 3.0 | 1,260 | EMXB350□RA911MLN0S |
| | 1,200 | MN0 | 0.084 | 1.7 | 1,320 | EMXB350□RA122MMN0S |

□ : Enter the appropriate terminal code.

◆RATED RIPPLE CURRENT MULTIPLIERS

⊙ Frequency Multipliers

| Capacitance(μF) | Frequency(Hz) | | | |
|-----------------|---------------|------|------|------|
| | 120 | 1k | 10k | 100k |
| 330 to 560 | 0.50 | 0.85 | 0.94 | 1.00 |
| 750 to 1,800 | 0.60 | 0.87 | 0.95 | 1.00 |
| 2,400 | 0.75 | 0.90 | 0.95 | 1.00 |

Please contact us for lifetime estimation.