

KME-BP Series

- Standard Bi-polarized type
- Endurance : 105°C 1000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)

KME-BP

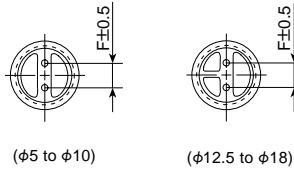
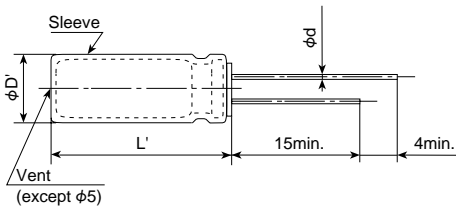
↑ bi-polarized
KME



◆ SPECIFICATIONS

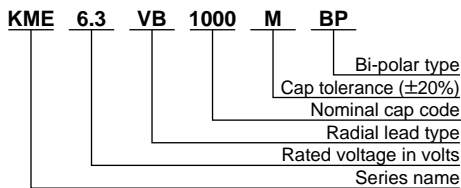
| Items | Characteristics | | | | | | | | | | |
|---|--|--------------------------------------|------|------|------|------|----------------------------|------|------|------|--|
| Category | -55 to +105°C | | | | | | | | | | |
| Temperature Range | -55 to +105°C | | | | | | | | | | |
| Rated Voltage Range | 6.3 to 100V _{dc} | | | | | | | | | | |
| Capacitance Tolerance | ±20% (M) (at 20°C, 120Hz) | | | | | | | | | | |
| Leakage Current | I=0.06CV or 10μA, whichever is greater. (at 20°C after 2 minutes) I=0.03CV or 3μA, whichever is greater. (at 20°C after 5 minutes) Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) | | | | | | | | | | |
| Dissipation Factor (tanδ) | Rated voltage (V _{dc}) | 6.3V | 10V | 16V | 25V | 35V | 50V | 63V | 80V | 100V | |
| | tanδ (Max.) | 0.24 | 0.24 | 0.20 | 0.20 | 0.16 | 0.14 | 0.12 | 0.12 | 0.10 | |
| When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase. (at 20°C, 120Hz) | | | | | | | | | | | |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V _{dc}) | 6.3V | 10V | 16V | 25V | 35V | 50V | 63V | 80V | 100V | |
| | Z(-25°C)/Z(+20°C) | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | Z(-40°C)/Z(+20°C) | 10 | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 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 1000 hours at 105°C, however the polarization shall be reversed every 250 hours. | | | | | | | | | | |
| | Rated voltage | 6.3 to 16V _{dc} | | | | | 25 to 100V _{dc} | | | | |
| | Capacitance change | ≤±25% of the initial value | | | | | ≤±20% of the initial value | | | | |
| | D.F. (tanδ) | ≤150% 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 500 hours at 105°C without voltage applied. | | | | | | | | | | |
| | Rated voltage | 6.3 to 16V _{dc} | | | | | 25 to 100V _{dc} | | | | |
| | Capacitance change | ≤±25% of the initial value | | | | | ≤±20% of the initial value | | | | |
| | D.F. (tanδ) | ≤150% of the initial specified value | | | | | | | | | |
| | Leakage current | ≤The initial specified value | | | | | | | | | |

◆ DIMENSIONS (Radial Lead Type=VB) [mm]



| φD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
|-----|------------|-----|-----|-----|------|-----|-----|
| φd | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| φD' | φD+0.5max. | | | | | | |
| L' | L+1.5max. | | | | | | |

◆ PART NUMBERING SYSTEM



| Capacitance | Code |
|-------------|------|
| 0.47μF | R47 |
| 1.0μF | 1 |
| 4.7μF | 4R7 |
| 10μF | 10 |
| 100μF | 100 |

◆ STANDARD RATINGS

| μF \ V _{dc} | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 |
|----------------------|---------|-------|---------|-------|---------|-------|---------|--------|---------|
| 0.47 | | | | | | 5X11 | 7 | | 5X11 |
| 1.0 | | | | | | 5X11 | 10 | | 5X11 |
| 2.2 | | | | | | 5X11 | 15 | 5X11 | 16 |
| 3.3 | | | | | | 5X11 | 18 | 5X11 | 20 |
| 4.7 | | | | | | 5X11 | 22 | 6.3X11 | 23 |
| 10 | | | | | 5X11 | 30 | 6.3X11 | 24 | 6.3X11 |
| 22 | | | | | 5X11 | 37 | 6.3X11 | 27 | 6.3X11 |
| 33 | | | 5X11 | 40 | 6.3X11 | 46 | 6.3X11 | 40 | 8X11.5 |
| 47 | | | 5X11 | 49 | 6.3X11 | 56 | 6.3X11 | 46 | 8X11.5 |
| 100 | 6.3X11 | 90 | 6.3X11 | 110 | 8X11.5 | 110 | 10X16 | 160 | 10X20 |
| 220 | 8X11.5 | 150 | 8X11.5 | 195 | 10X16 | 215 | 12.5X20 | 290 | 12.5X25 |
| 330 | 8X11.5 | 185 | 10X16 | 240 | 10X16 | 265 | 12.5X20 | 320 | 12.5X20 |
| 470 | 10X12.5 | 260 | 10X16 | 290 | 10X20 | 345 | 12.5X25 | 380 | 12.5X25 |
| 1,000 | 10X20 | 460 | 12.5X20 | 510 | 12.5X25 | 605 | 16X25 | 670 | 16X31.5 |
| 2,200 | 12.5X25 | 820 | 16X25 | 910 | 16X31.5 | 1,070 | 18X35.5 | 1,140 | |
| 3,300 | 16X25 | 1,110 | 16X31.5 | 1,200 | 18X35.5 | 1,400 | | | |
| 4,700 | 16X31.5 | 1,430 | 18X35.5 | 1,520 | | | | | |
| 6,800 | 18X35.5 | 1,830 | | | | | | | |