KME-BP Series

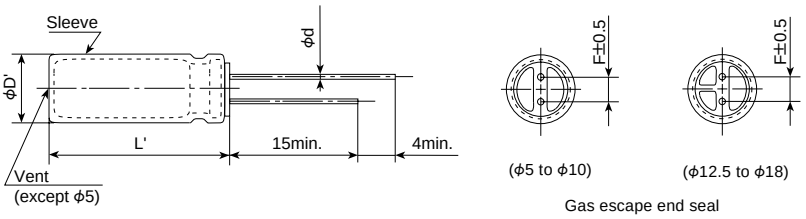
- Standard Bi-polarized type
- Endurance : 105℃ 1000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)

KME-BP
bi-polarized
KME

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−55 to +105℃
Rated Voltage Range	6.3 to 100Vdc
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)
Leakage Current	I=0.06CV or 10μA, whichever is greater. (at 20℃ after 2 minutes) I=0.03CV or 3μA, whichever is greater. (at 20℃ after 5 minutes) Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)
Dissipation Factor (tanδ)	Rated voltage (Vdc): 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℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc): 6.3V, 10V, 16V, 25V, 35V, 50V, 63V, 80V, 100V Z(−25℃)/Z(+20℃): 4, 3, 2, 2, 2, 2, 2, 2, 2 Z(−40℃)/Z(+20℃): 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℃ after the rated voltage is applied for 1000 hours at 105℃, however the polarization shall be reversed every 250 hours. Rated voltage: 6.3 to 16Vdc / 25 to 100Vdc 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℃ after exposing them for 500 hours at 105℃ without voltage applied. Rated voltage: 6.3 to 16Vdc / 25 to 100Vdc 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

KME 6.3 VB 1000 M BP

- BP: Bi-polar type
- M: Cap tolerance (±20%)
- 1000: Nominal cap code
- VB: Radial lead type
- 6.3: Rated voltage in volts
- KME: Series name

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

◆STANDARD RATINGS

Case size φD×L (mm)
Rated ripple current (mArms) at 105℃, 120Hz

μF \ Vdc	6.3		10		16		25		35		50		63		80		100	
0.47											5×11	7					5×11	8
1.0											5×11	10					5×11	12
2.2											5×11	15			5×11	16	6.3×11	20
3.3											5×11	18	5×11	20	6.3×11	23	6.3×11	25
4.7											5×11	22	6.3×11	24	6.3×11	27	6.3×11	30
10									5×11	30	6.3×11	37	6.3×11	40	8×11.5	46	8×11.5	50
22					5×11	40	6.3×11	46	6.3×11	51	8×11.5	63	8×11.5	68	10×16	89	10×16	97
33					5×11	49	6.3×11	56	8×11.5	72	8×11.5	77	10×12.5	98	10×16	105	12.5×20	140
47			5×11	54	6.3×11	67	6.3×11	67	8×11.5	86	10×12.5	105	10×16	130	10×20	140	12.5×20	170
100	6.3×11	90	6.3×11	90	8×11.5	110	8×11.5	110	10×16	160	10×20	190	12.5×20	225	12.5×25	245	16×25	300
220	8×11.5	150	8×11.5	150	10×12.5	195	10×16	215	12.5×20	290	12.5×25	340	16×25	405	16×31.5	435	18×35.5	510
330	8×11.5	185	10×16	240	10×16	265	12.5×20	320	12.5×20	350	16×25	460	16×31.5	535	18×35.5	570		
470	10×12.5	260	10×16	290	10×20	345	12.5×20	380	12.5×25	465	16×31.5	590	18×35.5	680				
1,000	10×20	460	12.5×20	510	12.5×25	605	16×25	670	16×31.5	805								
2,200	12.5×25	820	16×25	910	16×31.5	1,070	18×35.5	1,140										
3,300	16×25	1,110	16×31.5	1,200	18×35.5	1,400												
4,700	16×31.5	1,430	18×35.5	1,520														
6,800	18×35.5	1,830																