KME-BP Series

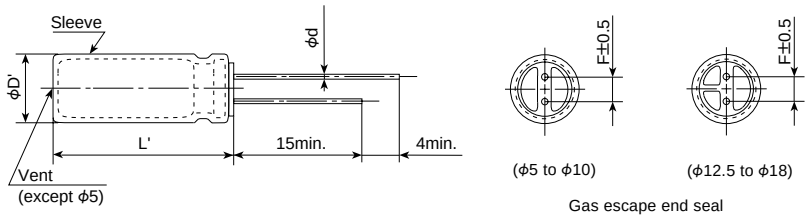
- Standard Bi-polarized type
- Endurance : 105℃ 1000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)

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

μF \ Vdc	6.3		10		16		25		35		50		63		80		100	
0.47											5X11	7					5X11	8
1.0											5X11	10					5X11	12
2.2											5X11	15			5X11	16	6.3X11	20
3.3											5X11	18	5X11	20	6.3X11	23	6.3X11	25
4.7											5X11	22	6.3X11	24	6.3X11	27	6.3X11	30
10									5X11	30	6.3X11	37	6.3X11	40	8X11.5	46	8X11.5	50
22					5X11	40	6.3X11	46	6.3X11	51	8X11.5	63	8X11.5	68	10X16	89	10X16	97
33					5X11	49	6.3X11	56	8X11.5	72	8X11.5	77	10X12.5	98	10X16	105	12.5X20	140
47			5X11	54	6.3X11	67	6.3X11	67	8X11.5	86	10X12.5	105	10X16	130	10X20	140	12.5X20	170
100	6.3X11	90	6.3X11	90	8X11.5	110	8X11.5	110	10X16	160	10X20	190	12.5X20	225	12.5X25	245	16X25	300
220	8X11.5	150	8X11.5	150	10X12.5	195	10X16	215	12.5X20	290	12.5X25	340	16X25	405	16X31.5	435	18X35.5	510
330	8X11.5	185	10X16	240	10X16	265	12.5X20	320	12.5X20	350	16X25	460	16X31.5	535	18X35.5	570		
470	10X12.5	260	10X16	290	10X20	345	12.5X20	380	12.5X25	465	16X31.5	590	18X35.5	680				
1,000	10X20	460	12.5X20	510	12.5X25	605	16X25	670	16X31.5	805								
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																

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