

SME-BP Series

- Standard Bi-polarized type
- Endurance : 85°C 2000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)

SME-BP

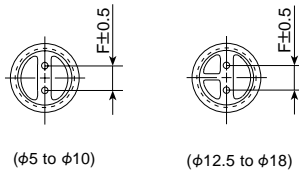
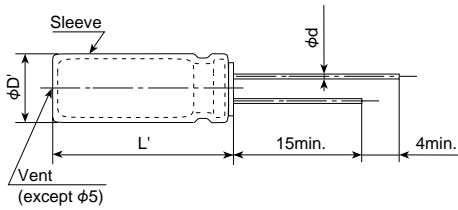
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bi-polarized
SME



◆ SPECIFICATIONS

Items	Characteristics										
Category	-40 to +85°C										
Temperature Range	-40 to +85°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 2000 hours at 85°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 1000 hours at 85°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									

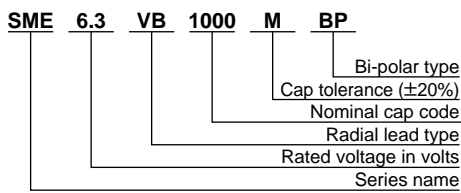
◆ DIMENSIONS (Radial Lead Type=VB) [mm]



Gas escape end seal

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	11		5X11
1.0						5X11	17		5X11
2.2						5X11	25	5X11	29
3.3						5X11	27	5X11	28
4.7						5X11	34	6.3X11	34
10					5X11	43	6.3X11	52	6.3X11
22			5X11	57	6.3X11	65	6.3X11	73	8X11.5
33			5X11	70	6.3X11	80	8X11.5	100	8X11.5
47			5X11	76	6.3X11	95	8X11.5	120	10X12.5
100	6.3X11	125	6.3X11	125	8X11.5	160	10X16	230	10X20
220	8X11.5	215	8X11.5	215	10X12.5	275	10X16	305	12.5X20
330	8X11.5	265	10X16	345	10X16	375	12.5X20	450	12.5X20
470	10X12.5	370	10X16	410	10X20	485	12.5X20	540	12.5X25
1,000	10X20	650	12.5X20	720	12.5X25	855	16X25	950	16X31.5
2,200	12.5X25	1,160	16X25	1,280	16X31.5	1,510	18X35.5	1,620	
3,300	16X25	1,570	16X31.5	1,690	18X35.5	1,980			
4,700	16X31.5	2,020	18X35.5	2,160					
6,800	18X35.5	2,600							