SREBPSeries



- SREBP IATURE - 85°C
- Miniature
- Bi-Polar
- 5mm Nominal Height
- +85°C
 Maximum
 Temperature



The SREBP series are bi-polar capacitors similar to the SREC series. These capacitors have a 5mm nominal height for use in ultra miniature applications where the polarity will be reversed or is unknown. Please note that these capacitors cannot withstand an AC application in which the maximum ripple current is exceeded.

The SREBP series capacitors are non-solvent proof and are not recommended when halogenated cleaning solvents are used. Refer to the Mini-Glossary for recommended cleaning conditions.

Summary of Specifications

- Radial lead terminals.
- Capacitance range: 0.1 to 47µF.
- Voltage range: 4 to 50VDC.
- Operating temperature range: -40°C to +85°C.
- Leakage current: 0.05CV or 10µA, whichever is greater, after 2 minutes at +20°C.
- Standard capacitance tolerance: ±20%
- Nominal case size (D×L): 3×5mm to 6.3×5mm.
- Rated lifetime: 1,000 hours at +85°C.

SREBP Series

SREBP Specifications

Item	Characteristics							
Operating Temperature Range	-40 to +85°C							
Rated Voltage Range	4 to 50VDC							
Capacitance Range	0.1 to 47μF							
Capacitance Tolerance	±20% (M) at +20°C, 120Hz							
Leakage Current	$I = 0.05$ CV or 10 μ A, whichever is greater, after 2 minutes at +20°C. Where I = Leakage current (μ A), C = Nominal capacitance (μ F) and V = Rated voltage (V)							
							e (V)	
Dissipation Factor (Tan δ)	At +20°C, 120Hz							
	Rated Voltage (V)	4	6.3	10	16	25	35	50
	Tan δ (DF)	0.35	0.24	0.20	0.17	0.17	0.15	0.15
Low Temperature Characteristics	At 120Hz, impedance (Z) ratio between the -25°C or -40°C value and +20°C value shall not exceed the values given below.							
	Rated Voltage (V)	4	6.3	10	16	25	35	50
	Z(-25°C)/Z(+20°C)	7	4	3	2	2	2	2
	Z(-40°C)/Z(+20°C)	15	10	8	6	4	3	3
Load Life	The following specifications shall be satisfied when the capacitors are restored to +20°C after subjecting them to the DC rated voltage for 1,000 hours at +85°C. Polarization shall be reversed every 250 hours. The sum of DC voltage and peak AC voltage must not exceed the full rated voltage of the capacitors.Capacitance change: $\leq \pm 20\%$ of initial measured value Tan δ (DF): $\leq 200\%$ of initial specified value Leakage current							
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to $\pm 20^{\circ}$ C after exposing them for 1,000 hours at $\pm 85^{\circ}$ C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change: $\leq \pm 20\%$ of initial measured value Tan δ (DF) : $\leq 200\%$ of initial specified value							
Othere	Leakage current : ≤ initial specified value							
Others								

Part Numbering System for SREBP Series When ordering, always specify complete catalog number for SREBP Series.

SREBP 25 VB 4R7 M 5X5 LL	 Lead Length: LL is Standard. Case Code: See Case Sizes in Tables. Capacitance Tolerance: M = ±20% Capacitance Value: Expressed in Microfarads. The first two digits are significant figures, and the third digit indicates the number of zeros for capacitance of 100μF or more. R indicates the decimal point for capacitance less than 100μF (e.g. R47 = .47μF; 4R7 = 4.7μF; 47R = 47μF; 471 = 470μF; 472 = 4,700μF; 473 = 47,000μF). Lead Configuration: VB = Radial Lead Terminals. DC Rated Voltage: Expressed in Volts (e.g. 25 = 25WVDC). Series Name: Indicates Basic Capacitor Design.
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SREBP Series

Diagram of Dimensions



Standard Voltage Ratings - VB/Radial Lead

Rated Voltage (WVDC)	Capacitance (μF)	Catalog Part Number	Nominal Case Size* D×L (mm)	Maximum ESR (Ω) at +20°C, 120Hz	Maximum Ripple Current (mA rms) at +85°C, 120Hz
	6.8	SREBP4VB6R8M3X5LL	3 × 5	85.313	8.5
	10	SREBP4VB10RM3X5LL	3.5 × 5	58.013	11
4 Volts	15	SREBP4VB15RM4X5LL	4 × 5	38.675	15
5 Volts Surge	22	SREBP4VB22RM5X5LL	5 × 5	26.369	22
	33	SREBP4VB33RM6X5LL	6.3 × 5	17.58	28
	47	SREBP4VB47RM6X5LL	6.3 × 5	12.343	34
	4.7	SREBP6.3VB4R7M3X5LL	3 × 5	84.638	8.6
	6.8	SREBP6.3VB6R8M3X5LL	3.5 × 5	58.5	11
6 2 Volto	10	SREBP6.3VB10RM4X5LL	4 × 5	39.78	15
0.5 Volts	15	SREBP6.3VB15RM5X5LL	5 × 5	26.52	22
8 voits Surge	22	SREBP6.3VB22RM5X5LL	5 × 5	18.082	26
	33	SREBP6.3VB33RM6X5LL	6.3 × 5	12.055	36
	47	SREBP6.3VB47RM6X5LL	6.3 × 5	8.464	41
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	3.3	SREBP10VB3R3M3X5LL	3 × 5	100.455	7.8
	4.7	SREBP10VB4R7M3X5LL	3.5 × 5	70.532	10
	6.8	SREBP10VB6R8M4X5LL	4 × 5	48.75	14
10 VOITS	10	SREBP10VB10RM5X5LL	5 × 5	33.15	19
13 volts Surge	15	SREBP10VB15RM5X5LL	5 × 5	22.1	23
	22	SREBP10VB22RM6X5LL	6.3 × 5	15.068	31
	33	SREBP10VB33RM6X5LL	6.3 × 5	10.045	38
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16 Volts 20 Volts Surge	2.2	SREBP16VB2R2M3X5LL	3 × 5	128.08	7
	3.3	SREBP16VB3R3M3X5LL	3.5 × 5	85.386	9
	4.7	SREBP16VB4R7M4X5LL	4 × 5	59.952	12
	6.8	SREBP16VB6R8M5X5LL	5 × 5	41.438	17
	10	SREBP16VB10RM5X5LL	5 × 5	28.178	21
	15	SREBP16VB15RM6X5LL	6.3 × 5	18.785	27
	22	SREBP16VB22RM6X5LL	6.3 × 5	12.808	33

*The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.

SREBP MINIATURE - 85°C

SREBP Series

Standard Voltage Ratings - VB/Radial Lead

Rated Voltage (WVDC)	Capacitance (μF)	Catalog Part Number	Nominal Case Size*Maximum ESR (Ω) at +20°C, 120Hz		Maximum Ripple Current (mA rms) at +85°C, 120Hz	
25 Volts 32 Volts Surge	1.5	SREBP25VB1R5M3X5LL	3 × 5	187.85	5.7	
	2.2	SREBP25VB2R2M3X5LL	3.5 × 5	128.08	8	
	3.3	SREBP25VB3R3M4X5LL	4 × 5	85.386	10	
	4.7	SREBP25VB4R7M5X5LL	5 × 5	59.952	14	
	6.8	SREBP25VB6R8M5X5LL	5 × 5	41.438	18	
	10	SREBP25VB10RM6X5LL	6.3 × 5	28.178	22	
	15	SREBP25VB15RM6X5LL	6.3 × 5	18.785	28	
	1.0	SREBP35VB1R0M3X5LL	3 × 5	248.625	5	
	1.5	SREBP35VB1R5M3X5LL	3.5 × 5	165.75	6.7	
25 Volto	2.2	SREBP35VB2R2M4X5LL	4 × 5	113.011	9.1	
44 Volts Surge	3.3	SREBP35VB3R3M5X5LL	5 × 5	75.341	12	
	4.7	SREBP35VB4R7M5X5LL	5 × 5	52.899	15	
	6.8	SREBP35VB6R8M6X5LL	6.3 × 5	36.563	20	
	10	SREBP35VB10RM6X5LL	6.3 × 5	24.863	24	
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	0.1	SREBP50VBR10M3X5LL	3 × 5	2,486.25	1.3	
	0.15	SREBP50VBR15M3X5LL	3 × 5	1,657.5	1.9	
	0.22	SREBP50VBR22M3X5LL	3 × 5	1,130.114	2.3	
	0.33	SREBP50VBR33M3X5LL	3 × 5	753.409	2.8	
50 Volts 63 Volts Surge	0.47	SREBP50VBR47M3X5LL	3 × 5	528.989	3.4	
	0.68	SREBP50VBR68M3X5LL	3 × 5	365.625	4.1	
	1.0	SREBP50VB1R0M3X5LL	3.5 × 5	248.625	5.5	
	1.5	SREBP50VB1R5M4X5LL	4 × 5	165.75	7.5	
	2.2	SREBP50VB2R2M5X5LL	5 × 5	113.011	10	
	3.3	SREBP50VB3R3M5X5LL	5 × 5	75.341	13	
	4.7	SREBP50VB4R7M6X5LL	6.3 × 5	52.899	16	
	6.8	SREBP50VB6R8M6X5LL	6.3 × 5	36.563	20	

*The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.