

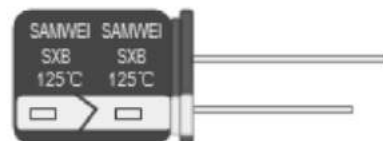
SXB Series High temperature (耐高温) Long Life Assurance(长寿命),High High Current(高纹波)

- High ripple current at high frequency, Load Life of 1000~2000 Hours at 125°C.

(Load Life of 4000~8000 Hours at 105°C)

高频高纹波电流, 寿命 125°C 1000~2000小时(105°C 4000~8000小时)

- For automotive electrical equipment, LED lighting, high temperature service
适用于汽车电器、LED照明、高温设备

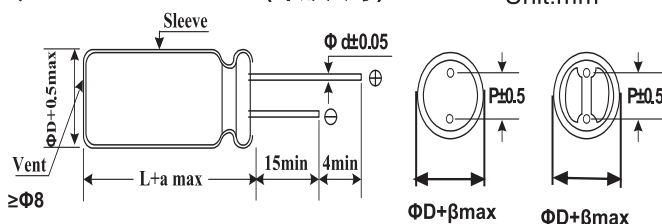


◆ SPECIFICATIONS(技术性能)

Item项目	Performance Characteristics 性能																																														
Operating temperature range 温度范围	-40 to +125℃					-25 to +125℃																																									
Rated Working Voltage Range 电压范围	10 to 100V					160 to 450V																																									
Nominal Capacitance Range 容量范围	2.2 to 4700μF																																														
Capacitance Tolerance 容量偏差	±20(120Hz,+20℃)																																														
Leakage Current 泄漏电流	I≤ 0.01CV or 3(μA)after 2minutes whichever is greater measured with rated working voltage applied at +20 ℃ 两者取较大值, 2分钟					I≤ 0.03CV (μA)after 2minutes application of rated working vlotage at +20 ℃ 2分钟测试																																									
Dissipation Factor tan δ(120Hz,+20℃) 损耗角正切值	<table><tr><td>Working Voltage(V)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>160~250</td><td>400~450</td></tr><tr><td>tan δ(max)</td><td>0.2</td><td>0.16</td><td>0.1</td><td>0.12</td><td>0.10</td><td>0.10</td><td>0.15</td><td>0.20</td></tr></table> Capacitance> 1000μF,add 0.02per another1000μF.容量大于1000uF每增加1000uF损耗角增加0.02.										Working Voltage(V)	10	16	25	35	50	63	160~250	400~450	tan δ(max)	0.2	0.16	0.1	0.12	0.10	0.10	0.15	0.20																			
Working Voltage(V)	10	16	25	35	50	63	160~250	400~450																																							
tan δ(max)	0.2	0.16	0.1	0.12	0.10	0.10	0.15	0.20																																							
Low Temperature Characteristics 低温阻抗比	<table><tr><td colspan="10">Impedance ratio max at 120Hz</td></tr><tr><td>Working Voltage(V)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>160~250</td><td>400~450</td></tr><tr><td>Z-25℃/Z+20℃</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>3</td><td>6</td></tr><tr><td>Z-40℃/Z+20℃</td><td>6</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td></tr></table>										Impedance ratio max at 120Hz										Working Voltage(V)	10	16	25	35	50	63	160~250	400~450	Z-25℃/Z+20℃	3	2	2	2	2	2	3	6	Z-40℃/Z+20℃	6	4	4	4	4	4	-	-
Impedance ratio max at 120Hz																																															
Working Voltage(V)	10	16	25	35	50	63	160~250	400~450																																							
Z-25℃/Z+20℃	3	2	2	2	2	2	3	6																																							
Z-40℃/Z+20℃	6	4	4	4	4	4	-	-																																							
High Temperature Load Life 高温负载耐久性	After applying rated voltage for 1000~2000 hours at 125℃ (4000~8000 hours at 105℃). the capacitors shall meet the following requirements.在125℃ 环境下连续施加额定电压1000~2000小时(105℃ 4000~8000小时), 符合以下要求.																																														
	Capacitance Change 容量					Within ± 30 % of initial value 在初始值的±30%																																									
	Dissipation Factor 损耗角					Not more than 300% of the specified value 不超过标准值的300%																																									
	Leakage Current 泄漏电流					initial specified value or less 标准值内																																									
	Life Time: 试验时间																																														
	ΦD(mm)					5~6.3		8~22																																							
	Ambient temp					125℃		105℃																																							
High Temperature Shelf Life 高温贮存	Life(H)					1000		4000		2000 8000																																					
	After leaving capacitors under no load at 125℃ for 500 hours(at 105℃ for 1000 hours).the capacitors shall meet the same requirement as Endurance.																																														
	在125℃ 环境下不加负载放置500小时后(105℃ 1000小时后)电性能同耐久性要求.																																														

◆ CASE SIZE TABLE(外形尺寸)

Unit:mm



ΦD	8	10	12.5	16	18	20	22
P	3.5	5.0	5.0	7.5	7.5	7.5	10.0
Φd	0.6	0.6	0.6	0.8	0.8	0.8	0.8
α	(L<20)1.5		(L≥20)2.0				
β	(D<20)0.5		(D≥20)1.0				

◆ RIPPLE CURRENT MULTIPLIER (纹波电流修正系数)

(1) Frequency Coefficient (频率系数)

cap(μf)	freq. (Hz)	120	300	1k	10k~	100k~
< 100		0.30	0.55	0.70	0.90	1.00
≥ 100		0.40	0.60	0.75	0.90	1.00

(2) Temperature Coefficient (温度系数)

Temperature (°C)	-55	65	85	105	125
Factor	2.4	2.10	1.78	1.65	1.00

SXB Series High temperature (耐高温) Long Life Assurance(长寿命),High Righ Current(高纹波)

◆DIMENSIONS Rated Capacitors, Voltage, Surge,Case Size,Imp,Ripple Current (容量、电压、浪涌电压、尺寸、阻抗、纹波电流)

Cap(μF)	Rated (Surge) Voltage (V)								
	10 (13)			16 (20)			25 (32)		
	Size	Imp	Ripple	Size	Imp	Ripple	Size	Imp	Ripple
47	6.3*11	1.900	131	6.3*11	1.200	185	6.3*11	0.740	235
68	6.3*11	1.400	140	6.3*11	0.900	205	8*12	0.510	280
100	6.3*11	1.300	160	6.3*11	0.740	289	6.3*11	0.400	301
							8*12	0.320	340
150	6.3*11	1.200	238	8*12	0.360	410	8*12	0.200	416
220	8*12	0.320	340	10*13	0.150	620	10*13	0.150	620
330	8*12	0.320	340	10*13	0.150	620	8*12	0.160	554
							10*13	0.150	620
	10*13	0.150	620				10*16	0.094	790
470	10*13	0.150	620	10*16	0.094	790	10*20	0.075	950
680	10*16	0.130	720	10*20	0.083	880	12.5*20	0.045	1080
1000	10*16	0.090	849	12.5*20	0.058	1080	12.5*25	0.040	1350
	10*20	0.075	950						
1500	12.5*20	0.062	1050	12.5*20	0.058	1080	16*25	0.035	1530
2200	12.5*20	0.055	1220	12.5*25	0.050	1350	16*25	0.030	1620
	12.5*25	0.050	1350	16*25	0.031	1620	16*30	0.025	1860
3300	12.5*25	0.050	1350	12.5*25	0.050	1350	16*30	0.025	1860
	16*25	0.031	1620	16*30	0.025	1860			
4700	16*30	0.025	1860				16*25	0.030	2230

Maximum Allowable Ripple Current (mA rms) at 125°C 100KHz

Case Size ΦD X L (mm)

Maximum Impedance (Ω) at 20°C 100KHz

Cap(μF)	Rated (Surge) Voltage (V)								
	35 (44)			50 (63)			63 (79)		
	Size	Imp	Ripple	Size	Imp	Ripple	Size	Imp	Ripple
4.7	5*11	3.500	70	5*11	3.500	70	5*11	3.500	60
10	5*11	1.500	135	5*11	2.500	135	5*11	2.500	105
	8*12	0.750	180	6.3*11	2.400	151			
22	6.3*11	1.000	155	6.3*11	2.500	180	8*12	2.000	135
	8*12	0.500	250	8*12	2.000	250			
33	5*11	0.840	178	6.3*11	1.500	200	8*12	1.100	150
	6.3*11	0.750	200						
	8*12	0.700	280						
47	6.3*11	0.500	235	8*12	1.000	280	10*13	1.000	220
100	8*12	0.220	340	8*12	0.450	340	10*16	0.350	380
				10*13	0.400	420			
150	10*16	0.200	550	10*16	0.380	550	12.5*20	0.300	780
220	8*16	0.190	580	10*20	0.350	650	10*20	0.300	697
	10*13	0.170	524				12.5*20	0.300	780
	10*16	0.180	650						
	10*20	0.150	650						
330	10*20	0.140	790	10*20	0.450	800	12.5*20	0.300	850
				12.5*20	0.300	850	12.5*25	0.220	980
470	10*20	0.130	830	12.5*20	0.300	850	12.5*30	0.170	1120
	12.5*20	0.100	930						
	12.5*25	0.100	990						
1000	16*25	0.060	1420	16*25	0.150	1420	16*30	0.120	1550
	16*30	0.050	1520	16*30	0.100	1550			

Maximum Allowable Ripple Current (mA rms) at 125°C 100KHz

Case Size ΦD X L (mm)

Maximum Impedance (Ω) at 20°C 100KHz

SXB Series High temperature (耐高温) Long Life Assurance(长寿命),High Righ Current(高纹波)

◆DIMENSIONS Rated Capacitors, Voltage, Surge,Case Size,Imp,Ripple Current (容量、电压、浪涌电压、尺寸、阻抗、纹波电流)

Cap(μF)	Rated (Surge) Voltage (V)							
	160 (200)		200 (250)		250 (300)		350 (400)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7	8*12	36	8*12	36	6.3*12	32	8*12	32
					8*12	36		
10	8*12	52	8*12	53	10*13	66	10*17	101
					10*17	75	10*20	109
15	10*13	100	10*13	83	10*17	93	10*20	135
22	10*13	115	10*17	115	10*17	112	12.5*20	183
					10*20	122	12.5*30	224
			10*20	122	12.5*20	138		
33	10*17	141	10*20	157	12.5*20	171	16*20	254
47	10*20	187	12.5*20	204	12.5*25	222	16*30	371
					16*20	225		
68	12.5*20	245	12.5*20	224	16*20	271	16*30	446
			12.5*25	250			18*25	432
82	12.5*20	269	12.5*25	274	16*25	400	18*30	520
	12.5*21	294			18*20	379		
100	12.5*25	325	16*20	329	16*30	483	18*35	610
	16*20	329			18*25	468		
150	16*25	434	16*30	494	18*30	608		
	18*20	412						
220	16*30	576	16*35	646	18*40	830		
	16*35	622	18*30	634				
330	18*31.5	767	18*40	896	22*40	1050		

Maximum Allowable Ripple Current (mA rms) at 125°C 100KHz

Case Size ΦD X L (mm)

Cap(μF)	Rated (Surge) Voltage (V)							
	400 (450)		450 (500)					
	Size	Ripple	Size	Ripple				
2.2	8*12	22	8*12	32				
3.3	8*12	44	8*16	49				
4.7	8*12	53	10*17	62				
	8*14	57	10*20	67				
6.8	8*16	74	10*20	81				
	10*13	75	10*25	91				
8.2	10*17	94	10*20	100				
10	10*17	101	10*25	110				
	10*20	110	12.5*20	110				
15	10*20	135	12.5*20	135				
	12.5*20	151	12.5*25	151				
22	10*17	297	12.5*25	183				
	12.5*20	263						
	12.5*30	284	16*20	185				
33	16*20	276	16*25	253				
	16*25	304	18*20	240				
47	16*30	370	16*30	331				
	18*25	358						
68	18*30	472	18*30	422				
82	18*30	518						
	18*35	560	18*40	580				
100	18*35	618	18*45	679				
	18*40	661	22*35	662				
120	22*40	763						
150	22*45	949						

Maximum Allowable Ripple Current (mA rms) at 125°C 100KHz

Case Size ΦD X L (mm)