

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

- High ripple current at high frequency,Load Life of 2000~3000 Hours at 125°C.
(Load Life of 8000~12000 Hours at 105°C)
高频高纹波电流，寿命 125°C 2000~3000小时(105°C 8000~12000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

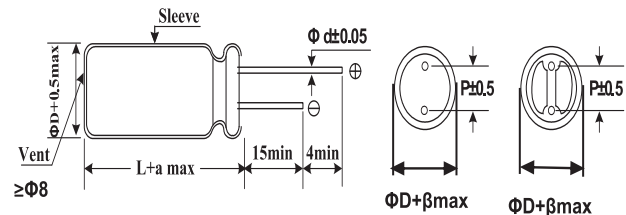


◆ SPECIFICATIONS(技术性能)

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分钟测试				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	Working Voltage(V)	10	16	25	35	50	63	160~250	400~450
	tan δ(max)	0.2	0.16	0.14	0.1	0.10	0.10	0.15	0.20
	Capacitance> 1000μF,add 0.02per another1000μF.容量大于1000uF每增加1000uF损耗角增加0.02.								
Low Temperature Characteristics 低温阻抗比	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 2000~3000 hours at 125℃ (8000~12000 hours at 105℃) . the capacitors shall meet the following requirements.在125℃ 环境下连续施加额定电压2000~3000小时后(105℃ 8000~12000小时后)，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℃		125℃		105℃
Life(H)		2000		8000		3000		12000	
High Temperature Shelf Life 高温贮存	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	0.7	0.90	1.00
≥ 100	0.40	0.60	0.75	0.90	1.00

(2) Tmperature Coefficient (温度系数)

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

SXC 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	109	6.3*11	1.200	154	6.3*11	0.740	196
68	6.3*11	1.400	117	6.3*11	0.900	171	8*12	0.510	233
100	6.3*11	1.300	133	6.3*11	0.740	241	8*12	0.320	283
150	6.3*11	1.200	198	8*12	0.360	342	8*12	0.200	347
220	8*12	0.320	283	10*13	0.150	517	10*13	0.150	517
330	8*12	0.320	283	10*13	0.150	517	10*13	0.150	517
	10*13	0.150	517				10*16	0.094	658
470	10*13	0.150	517	10*16	0.094	658	10*20	0.075	792
680	10*16	0.130	600	10*20	0.083	733	12.5*20	0.045	900
1000	10*20	0.075	792	12.5*20	0.058	900	12.5*25	0.040	1125
1500	12.5*20	0.062	875	12.5*20	0.058	900	16*25	0.035	1275
2200	12.5*20	0.055	1017	12.5*25	0.050	1125	16*25	0.030	1350
	12.5*25	0.050	1125	16*25	0.031	1350	16*30	0.025	1550
3300	12.5*25	0.050	1125	12.5*25	0.050	1125	16*30	0.025	1550
	16*25	0.031	1350	16*30	0.025	1550			
4700	16*30	0.025	1550						

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	2.500	113	5*11	2.500	113	6.3*11	2.500	88
	8*12	0.750	150	8*12	2.000	150	8*12	2.500	100
22	6.3*11	1.000	129	6.3*11	2.500	150	8*12	2.000	113
	8*12	0.500	208	8*12	2.000	208			
33	6.3*11	0.750	167	6.3*11	1.500	167	8*12	1.100	125
	8*12	0.700	233	8*12	1.100	233			
47	6.3*11	0.500	196	6.3*11	1.200	206	10*13	1.000	183
				8*12	1.000	233			
100	8*12	0.220	283	8*12	0.450	283	10*16	0.350	317
				10*13	0.400	350			
150	10*16	0.200	458	10*16	0.380	458	12.5*20	0.300	650
220	10*16	0.180	542	10*20	0.350	542	12.5*20	0.300	650
	10*20	0.150	542	12.5*16	0.350	567			
330	10*20	0.140	658	10*20	0.450	708	12.5*20	0.300	708
				12.5*20	0.300	708	12.5*25	0.220	817
470	12.5*20	0.100	775	12.5*20	0.300	817	12.5*30	0.170	933
	12.5*25	0.100	825	12.5*25	0.220	1183	16*25	0.170	933
1000	16*25	0.060	1183	16*25	0.150	1183	16*30	0.120	1292
	16*30	0.050	1267	16*30	0.100	1292			

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

Case Size ΦD X L (mm)

Maximum Impedance (Ω) at 20°C 100KHz

SXC 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	8*12	36	8*12	32
10	8*12	53	8*12	53	10*13	66	10*17	101
					10*17	75	10*20	109
15	10*13	83	10*13	83	10*17	93	10*20	135
22	10*13	100	10*17	115	10*17	112	12.5*20	183
					10*20	122	12.5*30	224
	10*17	115	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*25	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	32	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	12.5*20	263	12.5*25	183				
	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)