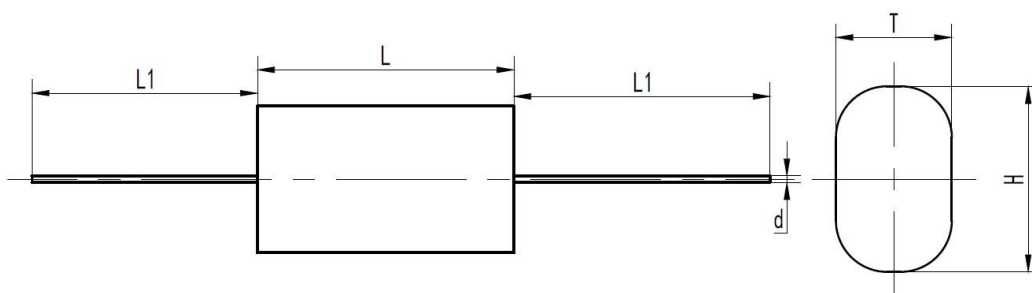
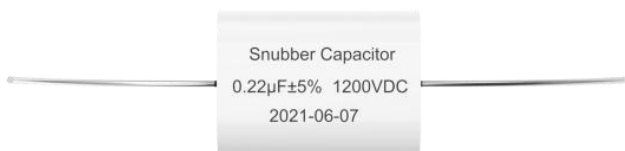
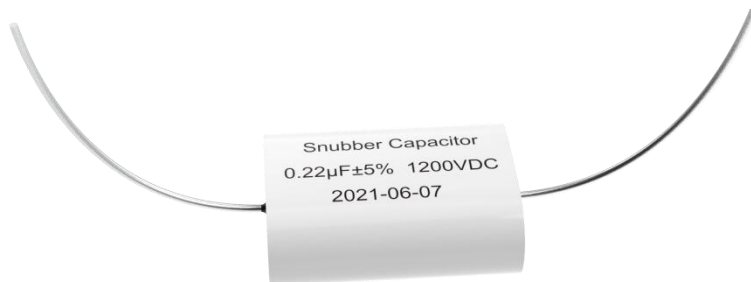


外形图 Outline Drawing

轴向针状引出:

缓冲吸收电容器

Snubber capacitor



## 应用

## Applications

- ◆ 广泛应用于高压高频脉冲电路中
  - ◆ 电视机中 S 校正和行逆程波形和显示器
  - ◆ 电子镇流器和节能灯
  - ◆ 吸收和 SCR 整流电路
  - ◆ 适用于各种规格的 IGBT 缓冲吸收保护
- It is widely used in high voltage and high frequency pulse circuit  
S-corrected and reverse waveforms and displays in television sets  
Electrical Ballast  
Absorption and SCR rectifier circuit  
High  
Suitable for all kinds of IGBT snubber protection



## 特征

- ◆ 双面金属化聚丙烯引出
- ◆ 损耗小，内部温升小
- ◆ 负电容量温度系数
- ◆ 优异的阻燃性能
- ◆ 可承受很大的峰-峰值电流  $I_{pp}$  和高频有效值电流  $I_{rms}$

## Features

- ◆ Double-sided metallized polypropylene extraction
- ◆ Small loss, small internal temperature rise
- ◆ Temperature Coefficient of negative capacitance
- ◆ Excellent flame retardancy
- ◆ Can withstand large peak-peak current  $I_{PP}$  and high frequency RMS current  $I_{RMS}$



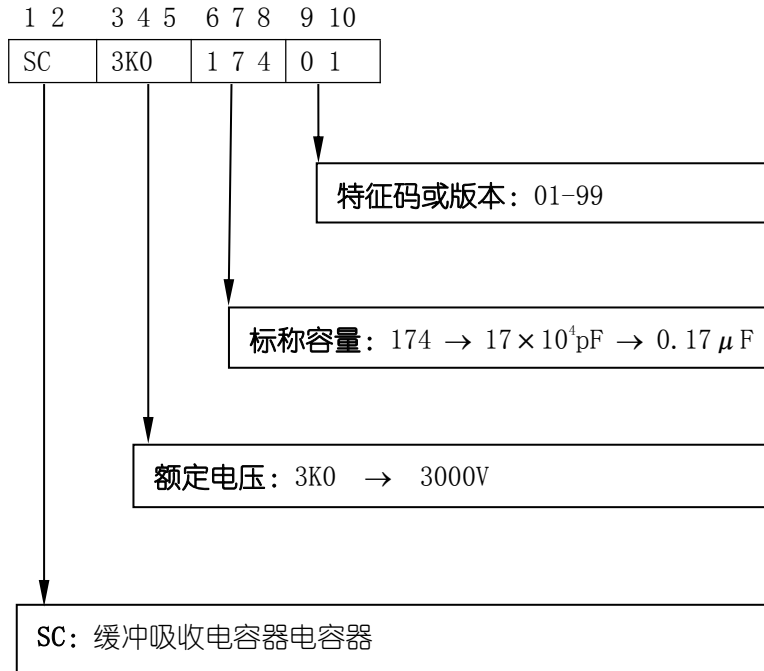
### 新能源电容产品编码规则 (10 位)

The 10 digits part number is formed as follow.

#### 型号代码:

Model type code:

ST\*\*\*: 缓冲吸收电容器 (Snubber capacitor)



范例: 缓冲吸收电容器 3000V0.17  $\mu\text{F}$   
 编码: SC3K0174\*\*



## 技术要求 Specifications

引用标准	GB/T 17702 idt IEC 61071, GB/T 2693 idt IEC 60384-1					
气候类别 Climatic Category	40/105/56					
工作温度范围 Operating Temperature Range	-40 ℃~85℃ (+85 ℃R (dc)) to +85℃: decreasing fa R (ac) U to +85℃: decreasing fa R (ac))					
额定电压 (Un) Rated Voltage 85℃	700V	1000V	1200V	1700V		
	2000V	3000V	5000V			
容量范围 Capacitance Range	0.1~8μF					
容量偏差 Capacitance Tolerance	±2% (G), ±3% (H), ±5% (J), ±10% (K), ±20% (M)					
耐电压 Voltage Proof	1.5 UN (10S, 20±5℃)					
绝缘电阻 Insulation Resistance (IR×Cn)	≥10,000S(20℃, 100Vdc, 1min)					
自感 (Ln) Self Inductance (Ln)	< 1nH per mm of lead spacing					
最大峰值电流 $\hat{I}$ (A) Maximum peak current $\hat{I}$ (A)	$\hat{I}=C_n*dV/dt$					
预期寿命 Expected Lifetime	100,000 hours @ Un, $\theta_{hs}=70℃$					
最大脉冲爬升速率 (dV/dt): 若实际工作电压 U 比额定电压 UR 低, 电容器可工作在更高的 dV/dt 场合, 这样 dv/dt 允许值应为右表值乘以 UR/U	UR (V)	dV/dt (V/us)				
		P=7.5	P=10	P=15	P=22.5	P=27.5
	250	1200	1000	550	250	200
	400	1800	1500	900	500	300
	630	3200	3200	2500	1500	900
	1000	6000	6000	3300	2100	1000
	1600	--	--	6000	3000	2000
2000	--	--	10000	5000	2200	



## 技术参数 Technical data

Cn ( $\mu$ F)	Outline size(mm)			ESR @1KHZ (m $\Omega$ )	ESL (nH)	dv/dt (V/ $\mu$ S)	Ipk (A)	Irms @40 $^{\circ}$ C /10KHZ (A)	Part number
	W( $\pm$ 1)	T( $\pm$ 1)	H( $\pm$ 1)						
Un 700V.DC, Urms 400V.AC, Us 1050V									
1.0	44	13.9	21.9	5.7	21	325	325	9	SC70010501
1.5	44	16.3	27.5	5.3	21	325	488	12	SC70015501
2.0	44	19.5	30.7	5.2	21	325	650	12	SC70020501
2.2	44	20.7	31.9	4.8	22	325	715	12	SC70022501
2.2	57	16.3	27.5	4.6	22	240	528	12	SC70022602
2.5	44	22.4	33.6	4.5	22	325	813	12	SC70025501
2.5	57	17.7	28.9	4.5	23	240	600	12	SC70025502
3.0	44	25.0	36.2	4.3	23	325	975	12	SC70030501
3.0	57	19.8	31.0	4.3	23	240	720	12	SC70030502
3.3	44	26.4	37.6	4.6	24	325	1073	12	SC70033501
3.5	57	21.8	33.0	4.2	24	240	840	12	SC70035501
4.0	57	23.6	34.8	4.2	24	240	960	12	SC70040501
4.7	57	26.0	37.2	4.2	25	240	1128	12	SC70047501
5.6	57	28.8	40.0	3.8	25	240	1344	12	SC70056501

Cn ( $\mu$ F)	Outline size(mm)			ESR @1KHZ (m $\Omega$ )	ESL (nH)	dv/dt (V/ $\mu$ S)	Ipk (A)	Irms @40 $^{\circ}$ C /10KHZ (A)	Part number
	W( $\pm$ 1)	T( $\pm$ 1)	H( $\pm$ 1)						
Un 1000V.DC, Urms 500V.AC, Us 1500V									
0.33	44	10.2	18.2	7.8	22	570	188	9	SC1K033401
0.47	44	17.5	12.8	7.7	22	570	268	9	SC1K047401
0.68	44	20.8	14.6	7.0	23	570	388	9	SC1K068401
1.0	44	25.0	18.6	6.8	23	570	570	12	SC1K010501
1.5	44	30.3	23.9	6.8	23	570	855	12	SC1K015501
1.5	57	25.2	18.9	6.8	24	340	510	12	SC1K015502
2.0	57	29.0	22.6	6.0	24	340	680	12	SC1K020501
2.2	57	30.3	23.9	5.9	24	340	748	12	SC1K022501
3.0	57	35.3	28.7	5.4	25	340	1020	12	SC1K030501
3.3	57	36.9	32.9	5.1	25	340	1122	12	SC1K033501



Cn ( $\mu$ F)	Outline size(mm)			ESR @1KHZ (m $\Omega$ )	ESL (nH)	dv/dt (V/ $\mu$ S)	Ipk (A)	Irms @40°C /10KHZ (A)	Part number
	W( $\pm$ 1)	T( $\pm$ 1)	H( $\pm$ 1)						
Un 1200V.DC, Urms 500V.AC, Us 1500V									
0.33	44	11.6	19.6	10.2	22	650	215	9	SC1K233401
0.47	44	14.4	22.4	10.2	22	650	306	9	SC1K247401
0.68	44	16.5	27.7	6.3	23	650	442	12	SC1K268401
1.0	44	21.0	32.2	6.2	23	650	650	12	SC1K210501
1.0	57	16.5	27.7	6.8	23	385	385	12	SC1K210502
1.2	44	23.4	34.6	6.0	24	650	780	12	SC1K212501
1.2	57	18.5	29.7	6.4	24	385	462	12	SC1K212502
1.5	44	26.8	38.0	6.7	24	650	975	12	SC1K215501
1.5	57	21.3	32.5	6.0	25	385	578	12	SC1K215502
2.0	57	25.3	36.5	5.6	25	385	770	12	SC1K220501

Cn ( $\mu$ F)	Outline size(mm)			ESR @1KHZ (m $\Omega$ )	ESL (nH)	dv/dt (V/ $\mu$ S)	Ipk (A)	Irms @40°C /10KHZ (A)	Part number
	W( $\pm$ 1)	T( $\pm$ 1)	H( $\pm$ 1)						
Un 1700V.DC, Urms 575V.AC, Us 2250V									
0.10	32	11.1	19.1	17.3	22	1350	135	5.7	SC1K710401
0.15	32	14.3	22.3	11.8	22	1350	203	8.0	SC1K715401
0.22	32	16.5	27.7	6.6	23	1350	297	9.0	SC1K722401
0.22	44	13.3	21.3	10.4	23	880	194	9.0	SC1K722402
0.33	44	15.6	26.8	6.9	23	880	290	9.0	SC1K733401
0.47	44	19.5	30.7	4.7	24	880	414	12	SC1K747401
0.68	44	24.4	35.6	4.5	24	880	598	12	SC1K768401
1.0	44	30.6	41.8	3.8	24	880	880	12	SC1K710501
1.0	57	24.4	35.6	3.6	25	610	610	12	SC1K710502
1.2	57	27.2	38.4	3.5	25	610	732	12	SC1K712501



Cn ( $\mu$ F)	Outline size(mm)			ESR @1KHZ (m $\Omega$ )	ESL (nH)	dv/dt (V/ $\mu$ S)	Ipk (A)	Irms @40°C /10KHZ (A)	Part number
	W( $\pm$ 1)	T( $\pm$ 1)	H( $\pm$ 1)						
Un 2000V.DC, Urms 700V.AC, Us 3000V									
0.10	32	13.1	21.1	13.8	22	1750	175	7.5	SC2K010401
0.10	44	9.6	17.6	12.4	22	1000	100	7	SC2K010402
0.15	44	12.4	20.4	8.6	23	1000	150	9	SC2K015401
0.22	44	15.6	23.6	8.5	23	1000	220	9	SC2K022401
0.33	44	18.4	29.6	5.2	23	1000	330	12	SC2K033401
0.47	44	23.4	34.6	5.0	24	1000	470	12	SC2K047401
0.56	44	25.9	37.1	4.9	24	1000	560	12	SC2K056401
0.56	57	20.1	31.3	5.5	24	640	358	12	SC2K056401
0.68	57	22.7	33.9	5.1	25	640	435	12	SC2K068401
1.0	57	58.6	39.8	4.8	25	640	640	12	SC2K010501

特殊需要可根据客户要求另行设计

