



# SC 系列 Series

## 特点 Features

- 7 (9) mm高度, 通用标准品。  
7(9) mm height, for general purpose, standard size.
- 适用于汽车音响、TV、空调遥控器等电子线路中。  
Used in car audio, TV, air conditioners circuits remote device, etc.
- RoHS指令已对应完毕。Adapted to the RoHS directive.



## 主要技术性能 Specifications

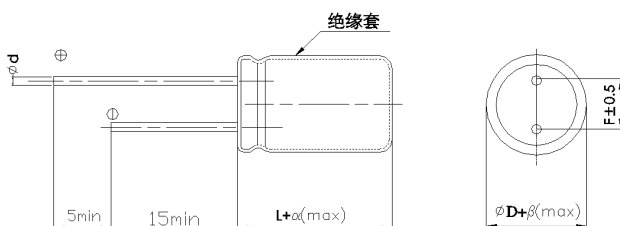
项目 Item	特性 Performance Characteristics							
使用温度范围 Operating Temperature Range	-40~+85°C							
额定电压范围 Rated Voltage Range	6.3~63 V							
标称电容容量范围 Nominal Capacitance Range	0.1~470μF							
标称电容容量允许偏差 Capacitance Tolerance	±20% (120Hz, +20°C)							
漏电流 Leakage Current	I ≤ 0.01CV or 3(μA) 2分钟(at 20°C, after 2 minutes) 取较大者 (whichever is greater)							
损耗角正切值 (tgδ) Dissipation Factor (+20°C, 120Hz)	U <sub>R</sub> (V)	6.3	10	16	25	35	50	63
	tgδ	0.22	0.20	0.16	0.14	0.12	0.10	0.10
温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	U <sub>R</sub> (V)	6.3	10	16	25	35	50	63
	Z-25°C / +20°C	4	3	2	2	2	2	2
	Z-40°C / +20°C	8	6	4	4	3	3	3
耐久性 Load Life	+85°C加额定电压1000小时, 恢复16小时后: After applying rated voltage for 1000 hours at +85°C and then resumed for 16 hours: 电容量变化率 Capacitance change : ±25%初始测量值以内 ±25% of the initial measured value 漏电流 Leakage current : ≤初始规定值 ≤ the initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤ 2times of the initial specified value							
高温贮存 Shelf Life	+85°C, 1000小时贮存后, 恢复16小时后: After storage for 1000 hours at +85°C and then resumed for 16 hours: 电容量变化率 Capacitance change : ±25%初始测量值以内 ±25% of the initial measured value 漏电流 Leakage current : ≤2倍初始规定值 ≤ 2times of the initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤ 2times of the initial specified value							

## 频率修正系数 Frequency Coefficient

F(Hz)	60	120	1K	≥10K
0.1~68	0.8	1	1.3	1.5
100~470	0.8	1	1.15	1.2

## 外形图及尺寸表 Case Size Table

单位 Unit: mm



D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45		0.5	
α(max)	L < 9, α=1; L=9, α=1.5			
β(max)	0.5			

## 尺寸 Dimensions

CAP(μF)		WV		6.3V(0J)		10V(1A)		16V(1C)		25V(1E)		35V(1V)		50V(1H)		63V(1J)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1	0R1													4×7	1.2		
0.22	R22													4×7	2.5		
0.33	R33													4×7	3.5		
0.47	R47													4×7	5.0		
1	010					4×7	7							4×7	10	4×7	12
2.2	2R2											4×7	13	4×7	17	4×7	18
3.3	3R3							4×7	13	4×7	18	4×7	23	5×7	25		
4.7	4R7					4×7	16	4×7	20	4×7	22	4×7	24	5×7	26		
10	100			4×7	21	4×7	28	4×7	30	4×7	31	5×7	34	6.3×7	48		
										5×7	33	6.3×7	45				
22	220	4×7	35	4×7	36	4×7	40	5×7	50	6.3×7	55	6.3×7	58				
33	330	4×7	40	4×7	43	4×7	45	5×7	52	6.3×7	65	6.3×7	53				
						5×7	55			8×7	75	8×7	80				
												8×9	90				
47	470	4×7	44	4×7	51	5×7	65	5×7	45	6.3×7	68	8×9	100				
				5×7	58	6.3×7	75	6.3×7	70	8×7	90						
100	101	5×7	75	5×7	80	6.3×7	95	6.3×7	75	8×7	120						
								8×7	115								
								8×9	126								
220	221	6.3×7	120	6.3×7	135	8×7	160										
						8×9	180										
330	331	8×7	160	8×7	180	8×7	180										
		8×9	176	8×9	198												
470	471	8×7	180	8×7	185												
		8×9	198	8×9	203												

Size φD×L(mm)

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz