SRW SERIES

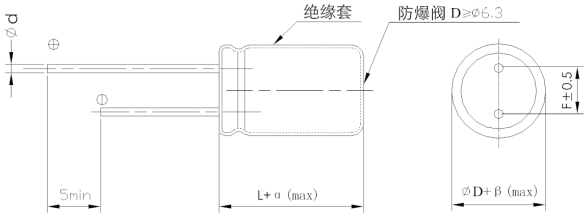
特点 Features

- 耐高纹波，耐高温，特长寿命，125℃ 4000小时。
  High Ripple Current High Temperature , Long Life, Life time 125℃ 4000 hours.
- 专为节能灯，电子镇流器设计制造。
  Specially designed for electronic ballast and energy-save lamp.
- RoHS指令已对应完毕。
  Adapted to the RoHS directive.

主要技术性能 Specifications

项目 Items	特性 Characteristics
使用温度范围 Operating Temperature Range	-40~+125℃
额定电压范围 Rated Voltage Range	200~450V
标称电容量范围 Nominal Capacitance Range	1~100μF
标称电容量允许偏差 Capacitance Tolerance	± 20% (120Hz, +20°C)
漏电流 Leakage Current	I ≤0.02 CV+10μA (2分钟, 20℃)(at 20℃, after 2 minutes)
	C: 标称容量Capacitance (μF)；V: 额定电压Rated voltage range (V)
损耗角正切值（tgδ） Dissipation Factor (+20℃, 120Hz)	U_R (V) | 200 | 250 | 350 | 400 | 450 tgδ | 0.15 | 0.15 | 0.20 | 0.20 | 0.20
温度特性(阻抗比/ 120Hz) Temperature Characteristics (Impedance ratio at 120Hz)	U_R (V) | 200 | 250 | 350 | 400 | 450 Z-40℃/Z+20℃ | 6 | 6 | 7 | 7 | 9
耐久性 Load Life	在+125℃ 条件下， 施加含额定纹波电流的额定电压，持续规定时间，并在+20℃下恢复16小时后，电容器应符合下列要求: The following specifications shall be met when the capacitors are restored to +20℃ for 16 hours after D.C. bias rated ripple current is applied at +125℃, the peak voltage shall not exceed the voltage. 持 续 时 间Time : 4000 小时 电容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏 电 流 Leakage current : ≤初始规定值 ≤Initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤2 times of the initial specified value
高温贮存 Shelf Life	+125℃ 1000小时贮存后，恢复16小时后 After storage for 1000 hours at +125℃ and then resumed for 16 hours: Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value Leakage current : ≤2倍初始规定值 ≤2 times of the initial specified value Dissipation factor : ≤2倍初始规定值 ≤2 times of the initial specified value

外形图及尺寸表 Case Size Table



单位 Unit: mm

D	8	10	12.5	16	18
F	3.5	5.0	5.0	7.5	7.5
d	0.5、0.6	0.6	0.6	0.8	0.8

αMAX	‹ L < 20 › 1.5
	‹ L≥20 › 2.0

βMAX	0.5

https://surgecomponents.com

Surge Components Inc. (USA)
sales@surgecomponents.com
+1 (631) 595-1818

Surge Components EMEA (Europe)
emea@surgecomponents.com
+44-204-593 0098

Surge Components.Ltd. (Asia)
surgehk@surgecomponents.com.hk
+852-2172-7607

允许纹波电流的修正系数 Coefficient of Allowable Ripple Current

频率 Frequency（Hz）	50	120	1K	10K	100K
修正系数 Coefficient	0.40	0.50	0.80	0.90	1.00

尺寸 Dimensions

电压 UR / 项目 Item / 容量 CR(μF) / 代码 Code		200V(2D)		250V(2E)		350V(2V)		400V(2G)		450V(2W)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
		φD×L(mm)	(mA)	φD×L(mm)	(mA)	φD×L(mm)	(mA)	φD×L(mm)	(mA)	φD×L(mm)	(mA)
1.0	010							8×11.5	50	8×11.5	45
1.2	1R2							8×11.5	55	8×11.5	48
1.5	1R5							8×11.5	65	8×16	50
1.8	1R8							8×16	75	8×16	54
2.2	2R2					8×11.5	70	8×16	80	8×20	65
2.7	2R7					8×11.5	75	8×20	85	8×20	75
3.3	3R3	8×11.5	70	8×11.5	75	8×16	80	8×20	95	10×16	80
4.7	4R7	8×11.5	80	8×11.5	90	8×20	110	10×20	100	10×20	90
5.6	5R6	8×16	85	8×16	110	10×20	120	10×25	110	10×25	95
6.8	6R8	8×16	85	8×20	125	10×20	160	10×25	175	12.5×20	160
8.2	8R2	8×20	160	8×20	150	10×20	170	12.5×20	210	12.5×20	170
10	100	8×20	200	10×16	170	10×25	200	12.5×20	220	12.5×20	210
15	150	10×20	335	10×20	230	12.5×20	230	16×20	255	16×20	340
18	180	10×20	355	10×25	280	12.5×25	250	16×25	315	16×25	380
22	220	10×25	405	12.5×20	320	12.5×25	270	16×25	345	16×25	420
33	330	12.5×20	480	12.5×20	400	16×25	380	18×30	510	16×35	500
47	470	12.5×25	530	16×20	560	18×30	530	18×35	670		
68	680	16×25	610	16×30	730	18×35	680				
82	820	18×25	765	18×30	775						
100	101	18×30	900	18×35	950						

●额定纹波电流Rated ripple current (mA,+125℃,100KHz)

Surge Components Inc. (USA)
sales@surgecomponents.com
+1 (631) 595-1818

Surge Components EMEA (Europe)
emea@surgecomponents.com
+44-204-593 0098

Surge Components.Ltd. (Asia)
surgehk@surgecomponents.com.hk
+852-2172-7607

Product symbol system for Aluminum Electrolytic Capacitors

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
① Series			② Voltage		③ Capacitance			④ Tolerance	⑤ Size code				⑥ Terminal Code			⑦ Brand	⑧ Sleeve	⑨ Other	⑩ Supplement Code	

① Series

Series is represented by a two-letter code. For example "SGR".

② Voltage

Voltage in volts(V) is represented by a one-digit and one-letter code.
Example:

Voltage(V)	2.5	4	6.3	10	16	25	35	50	63	80	100
Code	0E	0G	0J	1A	1C	1E	1V	1H	1J	1K	2A

Voltage(V)	160	200	250	315	350	400	420	450	500	550
Code	2C	2D	2E	2F	2V	2G	2M	2W	2H	2L

③ Capacitance

Capacitance in μF is represented by a three-digit code.the first two digis are significant and the third digit indicates the number of zeros following the significant figure "R" represents the decimal point for capacitance under 10μF.
Example:

Capacitance(μF)	0.1	0.47	1	4.7	10	47	100	470	1000	4700	10000
Code	0R1	R47	010	4R7	100	470	101	471	102	472	103

④ Tolerance

Tolerance is represented by a one-letter code.
Example:

Tolerance(%)	-5~+5	-10~+10	-15~+15	-20~+20	-0~+20	-5~+20	-10~+20	-0~+30	+10~+30	-10~+30	-15~+20
Code	J	K	Y	M	R	H	V	F	G	Q	E

⑤ Size code

Size code is represented by a one-letter and three-digit code. The first one-letter indicate case diameter in mm .The last three digits indicate case length in mm, When the height of a product exceeds 100mm, if the last digit is 0,it is represented by A, otherwise, it is represented by B .
Example:

ΦD	4	5	6.3	8	10	12	12.5	13	16	18	20	22	25	30	35	40	50	63.5	89
Code	B	C	E	F	G	H	I	J	L	M	O	P	Q	R	S	T	U	W	Y

L	5	5.4	9	10	11	11.5	12	14	16	20	25	50	100	105	110	115	120	200	205
Code	050	054	090	100	110	115	120	140	160	200	250	500	10A	10B	11A	11B	12A	20A	20B

Note:When a case size is required and not shown in the table ,please contact with us for further discussion.

⑥ Terminal Code

Terminal Code is represented by a combination of letters or numbers
SMD Type terminal code (please refer to page11)
Radial type terminal code (please refer to page 12~15)
Snap-in Type and ScrewType terminal code(please refer to page 16~17)
Note:When a terminal code is required and not shown in the table ,please contact with us for further discussion.

⑦ Brand

The Surge trademark is represented by the letter "S".

⑧ Sleeve

The sleeve material is represented by the letter E for PET and V for PVC.

⑨ Other

It is represented by a letter or number for rubber shape or other information.

⑩ Supplement Code

For special control purposes.

For example: SGR 16V 2200μF 20% 12.5×25 taping F=5.0 Brand: Surge PVC Sleeve

S	G	R	1	C	2	2	2	M	I	2	5	0	B	5	0	S	V	0

https://surgecomponents.com

Surge Components Inc. (USA)
sales@surgecomponents.com
+1 (631) 595-1818

Surge Components EMEA (Europe)
emea@surgecomponents.com
+44-204-593 0098

Surge Components.Ltd. (Asia)
surgehk@surgecomponents.com.hk
+852-2172-7607