

特点 Features

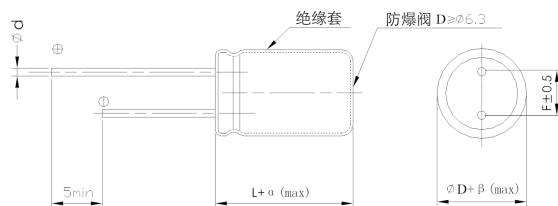
- 双极性，音频品，适用于音响分频网络电路。
Bi-polarized, used in dividing network circuits.
- RoHS指令已对应完毕。Adapted to the RoHS directive.



主要技术性能 Specifications

项目 Items	特性 Characteristics			
使用温度范围 Operating Temperature Range	-40~+85°C			
额定电压范围 Rated Voltage Range	6.3~50 V			
标称容量范围 Nominal Capacitance Range	1~22μF			
标称容量允许偏差 Nominal Capacitance Tolerance	±20% (+20°C, 120Hz)			
漏电流 Leakage Current	$I \leq 0.03CV + 5(\mu A)$ 2分钟(at 20°C, after 2 minutes)			
损耗角正切值(tgδ) Dissipation Factor (+20°C, 120Hz)	$U_R(V)$	6.3~10	16~50	
	tgδ	0.12	0.07	
温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	$U_R(V)$	6.3	10~16	25~50
	Z-40°C / Z+20°C	≤7	≤5	≤4
耐久性 Load Life	+85°C加额定电压2000小时(每250小时反转极性一次)恢复16小时后: After applying rated voltage for 2000 hours at +85°C(with the polarity inverted every 250 hours) and then resumed for 16 hours: 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	+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: 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 : ≤2倍初始规定值 ≤2 times of the 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			

外形图及尺寸表 Case Size Table



单位 Unit: mm

D	10	12.5	16
F	5.0	5.0	7.5
d	0.6	0.6	0.8
αMAX	α L < 20 > 1.5		βMAX
	α L ≥ 20 > 2.0		
			β D ≥ 20 > 1.0

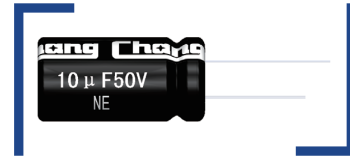
尺寸 Dimensions

CAP(μF) \ WV		6.3V(0J)	10V(1A)	16V(1C)	25V(1E)	50V(1H)
1	010					10×16
2.2	2R2				10×12.5	10×20
4.7	4R7		10×12.5	10×16	10×20	12.5×20
10	100	10×12.5	10×16	10×20	12.5×20	16×25
22	220	10×16	10×20	12.5×20	12.5×25	16×30

NE 系列 Series

特点 Features

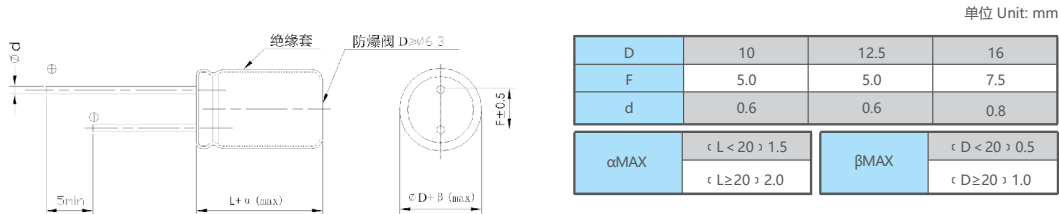
- 无极性品，高频损耗小，适用于电视机水平偏转电流校正用。
Non-polarized, Small loss at high frequency,
Use for S correction of horizontal deflection current in TV
- RoHS指令已对应完毕。
Adapted to the RoHS directive.



主要技术性能 Specifications

项目 Items	特性 Characteristics
使用温度范围 Operating Temperature Range	-40~+85°C
额定电压范围 Rated Voltage Range	25~100 V
标称电容容量范围 Nominal Capacitance Range	1~15µF
标称电容容量允许偏差 Nominal Capacitance Tolerance	±10% (120Hz, +20°C)
漏电流 Leakage Current	$I \leq 100 \mu\text{A}$ 2分钟 (at 20°C, after 2 minutes)
损耗角正切值(tgδ) Dissipation Factor (+20°C, 120Hz)	tgδ≤0.05
耐久性 Load Life	在70°C下，在直流12V电压上叠加额定的纹波电流，连续加1000小时，恢复16小时后： After 1000 hours application of DC 12V on which the specified allowable ripple current is superimposed at 70°C, and then resumed for 16 hours: 电容变化率 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	+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: 电容变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏电流 Leakage current : ≤2倍初始规定值 ≤2 times of the 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

外形图及尺寸表 Case Size Table



尺寸 Dimensions

WV		25V(1E)		50V(1H)		100V(2A)	
		Size	Ripple	Size	Ripple	Size	Ripple
1	010	10×20	2.4	10×20	5.0		
2.2	2R2	12.5×20	3.3	12.5×25	6.0		
3.3	3R3	12.5×25	4.5	12.5×25	6.5		
4.7	4R7	12.5×25	6.0	12.5×25	7.0	12.5×25	7.0
				16×25	7.5		
6.8	6R8	16×25	7.0	16×30	8.0		
10	100	16×25	8.0	16×30	8.6	16×30	8.6
15	150					16×30	10

Size φD×L(mm)
Maximum Allowable Ripple Current (A rms) at 70°C 15.75KHz

Product symbol system for Aluminum Electrolytic Capacitors



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 $10\mu\text{F}$.

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 2200 μF 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
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