

# HSV 系列 Series



## 特点 Features

- 5mm高, 微型体积。 Be 5mm in height and mini-size
- 适用于照相机、汽车音响、随身听、DVD、对讲机、手机、复读机等。  
Suitable for camera, car audio, mini-audio sets, DVD, interphone, mobile phone, etc.
- RoHS指令已对应完毕。 Adapted to the RoHS directive.

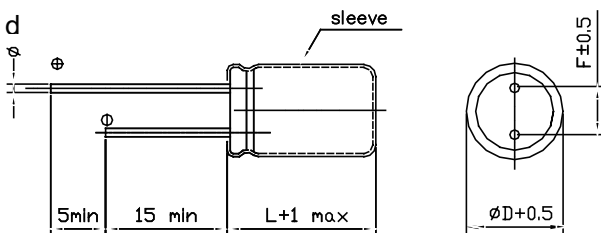
## 主要技术性能 Specifications

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	4~50V							
标称容量范围 Nominal Capacitance Range	0.1~470μF							
标称容量允许偏差 Capacitance Tolerance	±20% (120Hz, +20°C)							
漏电流 Leakage Current	I ≤ 0.01CV (μA) 或 3μA 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>s</sub> (V)	4	6.3	10	16	25	35	50
	tgδ	0.35	0.24	0.20	0.16	0.14	0.12	0.12
温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	U <sub>s</sub> (V)	4	6.3	10	16	25	35	50
	Z-25°C / Z+20°C	7	4	3	2	2	2	2
	Z-40°C / Z+20°C	15	10	6	4	4	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(4V and Ø3:±30%) 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							
	+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(4V and Ø3:±30%) 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) \ CAP(μF)	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			

尺寸 Dimensions

CAP(μF) \ WV		4V(0G)		6.3V(0J)		10V(1A)		16V(1C)		25V(1E)		35V(1V)		50V(1H)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1	0R1													4×5	1.5
0.22	R22													4×5	2.6
0.33	R33													4×5	3.2
0.47	R47													4×5	4.0
1	010													4×5	8
2.2	2R2					4×5	6	4×5	7					4×5	13
3.3	3R3					4×5	8	4×5	9			4×5	14	4×5	17
4.7	4R7					4×5	12			4×5	16	4×5	18	5×5	20
10	100									5×5	27	5×5	29	6.3×5	33
22	220							4×5	37	5×5	37	6.3×5	46	6.3×5	40
		4×5	22	4×5	32	4×5	36	5×5	40	6.3×5	42	8×5	50	8×5	52
33	330	4×5	28	4×5	37	4×5	41	5×5	49	6.3×5	52	8×5	62	8×5	71
47	470	4×5	33	4×5	45	5×5	52	6.3×5	58	8×5	70	8×5	80		
100	101	5×5	56	5×5	70	5×5	65	6.3×5	80	8×5	110				
						6.3×5	80	8×5	92						
220	221	6.3×5	96	6.3×5	110	6.3×5	105	8×5	135						
						8×5	135								
330	331	8×5	145	8×5	145	8×5	146	8×5	148						
470	471	8×5	185	8×5	210										

Size φD×L(mm)

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