

VK型片式铝电解电容

VKSeries Chip Type Aluminum Electrolytic Capacitors

特点 Features

- 125°C 1000~1500小时保证品
- 产品尺寸：Φ6.3~Φ10
- 适用于车载电装品的高温用途
- ROHS指令（2002/95/EC）已对应完毕

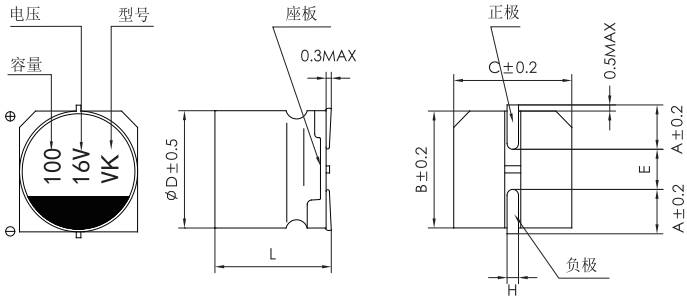


主要技术性能 Specifications

项目 Items	特性 Performance Characteristics					
工作温度范围 Operating Temperature Range	-40℃ ~ +125℃					
额定电压范围 Rated Voltage Range	10V ~ 50V					
标称电容量允许偏差 Nominal Capacitance Tolerance	±20% (20℃ , 120Hz)					
漏电流 Leakage Current	I≤0.01CRVR or 3(μA) , 取较大者 (2分钟) CR : 标称电容量 (μF) UR : 额定电压 (V) I≤0.01CRVR or 3(μA) Whichever is greater(at 20℃, after 2 minutes) CR: Nominal Capacitance (μF) UR: Rated voltages (V)					
损耗角正切 (tgδ) Dissipation Factor (Max) 20℃, 120Hz	U _R (V)	10	16	25	35	50
	tgδ	0.30	0.24	0.20	0.17	0.14
耐久性 Load Life	+125℃连续加1000-1500小时额定电压小时后，电容器应满足以下要求： After 1000-1500hours' application of rated voltage at 105℃, the capacitor shall meet the following requirement:					
	规定时间 Specified time	Φ6.3*5.8~Φ6.3*7.7:1000小时 Φ8*10.5~Φ10*10.5:1500小时				
	电容量变化率 Capacitance Change	±30%初始值以内 Within ±30% of the initial value				
	损耗角正切 Dissipation Factor	≤ 300%初始规定值 Not more than 300% of the initial specified value				
	漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value				
高温贮存 Shelf Life	+125℃贮存1000小时后，加额定工作电压30分钟,电容器应满足以上耐久性要求 After storage for 1000 hours at +125℃, UR to be applied for 30 minutes, the capacitors shall meet the requirement of load life above					
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	U _R (V)	10	16	25	35	50
	Z(-25℃)/Z(+20℃)	6	5	4	3	3
	Z(-40℃)/Z(+20℃)	12	8	6	4	4
耐焊接热 Resistance to Soldering Heat	在250℃的条件下，电容器在热板上保持30秒，然后从热板上取出电容器，让其在室温下恢复，电容器应满足以下要求： The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement.					
	电容量变化率 Capacitance Change	±10%初始值以内 Within ±10% of the initial value				
	损耗角正切 Dissipation Factor	≤ 初始规定值 Not more than the initial specified value				
	漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value				



外形图及尺寸表 Case Size Table



	(mm)			
	6.3 × 5.8	6.3 × 7.7	8 × 10.5	10 × 10.5
A	2.4	2.4	2.9	3.2
B	6.6	6.6	8.3	10.3
C	6.6	6.6	8.3	10.3
E	2.2	2.2	3.1	4.5
L	5.8	7.7	10.5	10.5
H	0.5 ~ 0.8		0 . 8~1.1	

注：L值Φ6.3壳号公差±0.3，Φ8及以上壳号公差±0.5

标称电容量、额定电压、额定纹波电流与尺寸对应表
Nominal Capacitance, Rated Voltage, Rated Ripple Current and Case Size Table

电压 WV (Vdc)	容量 Cap (μA)	产品 尺寸 Size	纹波电流 mArms 120Hz/125℃	电压 WV (Vdc)		容量 Cap (μA)		产品尺寸 Size		纹波电流 mArms 120Hz/125℃	
10	68	6.3*5.8	50	35		10		6.3*5.8	50		
	100	6.3*7.7	75			22		6.3*5.8	50		
	220	8*10.5	130			33		6.3*7.7	70		
	330	8*10.5	130			47		6.3*7.7	70		
	330	10*10.5	180			47		8*10.5	130		
	470	10*10.5	180			100		8*10.5	130		
16	33	6.3*5.8	50	50		100		10*10.5	180		
	47	6.3*7.7	70			220		10*10.5	180		
	100	6.3*7.7	75			10		6.3*5.8	50		
	100	8*10.5	130			22		6.3*7.7	70		
	220	8*10.5	130			33		6.3*7.7	70		
	220	10*10.5	180			33		8*10.5	130		
25	330	10*10.5	180			47		8*10.5	130		
	22	6.3*5.8	50			47		10*10.5	180		
	33	6.3*5.8	50			100		10*10.5	180		
	47	6.3*7.7	70			纹波修正系数：					
	100	8*10.5	130			频率	50Hz	120Hz	300Hz	1KHz	10KHz~
	220	8*10.5	130			修正系数	0.85	1.0	1.17	1.36	1.50
	220	10*10.5	180								
	330	10*10.5	180								

VM

型片式铝电解电容

VM

Series Chip Type Aluminum Electrolytic Capacitors

特点 Features

- 125℃ 2000~3000 小时保证品
- 产品尺寸：Φ6.3~Φ10
- 适用于车载电装品的高温用途
- ROHS 指令 (2002/95/EC) 已对应完毕

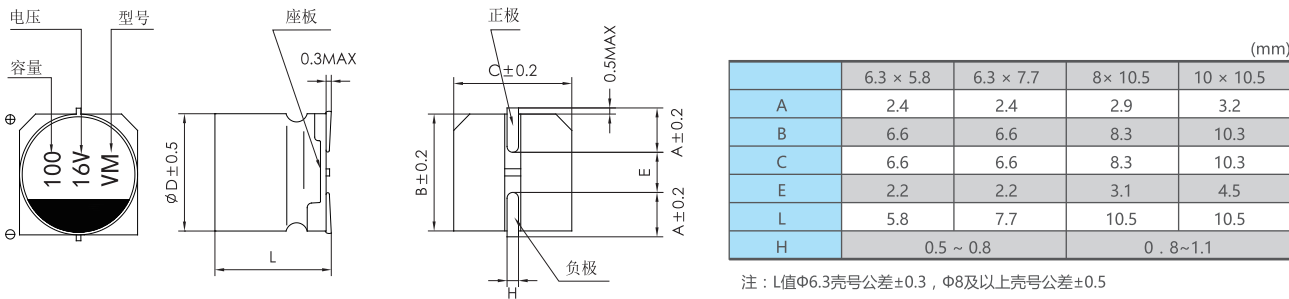


主要技术性能 Specifications

项目 Items	特性 Performance Characteristics					
工作温度范围 Operating Temperature Range	-40℃ ~ +125℃					
额定电压范围 Rated Voltage Range	10V ~ 50V					
标称电容量允许偏差 Nominal Capacitance Tolerance	±20% (20℃ , 120Hz)					
漏电流 Leakage Current	I≤0.01CRVR or 3(μA) , 取较大者 (2 分钟) CR : 标称电容量 (μF) UR : 额定电压 (V) I≤0.01CRVR or 3(μA) Whichever is greater(at 20℃, after 2 minutes) CR: Nominal Capacitance (μF) UR: Rated voltages (V)					
损耗角正切 (tgδ) Dissipation Factor (Max) 20℃, 120Hz	U _R (V)	10	16	25	35	50
	tgδ	0.24	0.20	0.16	0.14	0.14
耐久性 Load Life	+125℃连续加载规定时间的额定电压后待温度恢复到 20℃进行测量时, 应满足以下要求 : + 125 °C continuous loading at a predetermined time after the rated voltage until the temperature returns to 20 °C measured					
	规定时间 Specified time	Φ6.3&50V 的Φ8~Φ10 产品: 2000 小时 Φ8~Φ10:3000 小时				
	电容量变化率 Capacitance Change	±30%初始值 Within ±30% of the initial value				
	损耗角正切 Dissipation Factor	≤ 300%初始规定值 Not more than 300% of the initial specified value				
	漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value				
高温贮存 Shelf Life	+125℃贮存 1000 小时后, 加额定工作电压 30 分钟, 电容器应满足以上耐久性要求 After storage for 1000 hours at +125℃, UR to be applied for 30 minutes, the capacitors shall meet the requirement of load life above					
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	U _R (V)	10	16	25	35	50
	Z(-25℃)/Z(+20℃)	6	5	4	3	3
	Z(-40℃)/Z(+20℃)	12	8	6	4	4
耐焊接热 Resistance to Soldering Heat	在 250℃的条件下, 电容器在热板上保持 30 秒, 然后从热板上取出电容器, 让其在室温下恢复, 电容器应满足以下要求 : The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement.					
	电容量变化率 Capacitance Change	±10%初始值以内 Within ±10% of the initial value				
	损耗角正切 Dissipation Factor	≤ 初始规定值 Not more than the initial specified value				
	漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value				



外形图及尺寸表 Case Size Table



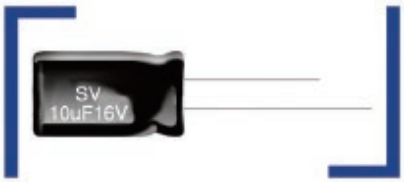
标称电容量、额定电压、额定纹波电流与尺寸对应表
Nominal Capacitance, Rated Voltage, Rated Ripple Current and Case Size Table

电压 WV (Vdc)	容量 Cap (μA)	产品 尺寸 Size	纹波电流 mArms 120Hz/125℃	等价串联 电阻(Ω max/100k Hz)	电压 WV (Vdc)	容量 Cap (μA)	产品尺寸 Size	纹波电流 mArms 120Hz/125℃	等价串联 电阻(Ω max/100k Hz)		
10	68	6.3*5.8	110	1.2	35	10	6.3*5.8	110	1.2		
	100	6.3*7.7	220	0.6		22	6.3*5.8	110	1.2		
	220	8*10.5	296	0.3		33	6.3*7.7	220	0.6		
	330	8*10.5	296	0.3		47	6.3*7.7	220	0.6		
	330	10*10.5	440	0.2		47	8*10.5	296	0.3		
	470	10*10.5	440	0.2		100	8*10.5	296	0.3		
16	33	6.3*5.8	110	1.2	50	100	10*10.5	440	0.2		
	47	6.3*7.7	220	0.6		220	10*10.5	440	0.2		
	100	6.3*7.7	220	0.6		10	6.3*5.8	51	2.8		
	100	8*10.5	296	0.3		22	6.3*7.7	83	2.0		
	220	8*10.5	296	0.3		33	6.3*7.7	83	2.0		
	220	10*10.5	440	0.2		33	8*10.5	160	0.7		
25	330	10*10.5	440	0.2		47	8*10.5	160	0.7		
	22	6.3*5.8	110	1.2		47	10*10.5	247	0.5		
	33	6.3*5.8	110	1.2		100	10*10.5	247	0.5		
	47	6.3*7.7	220	0.6		纹波修正系数：					
	100	8*10.5	296	0.3		频率 (Hz)	静电容量 (μF)	120	1K	10K	100K
	220	8*10.5	296	0.3				0.66	0.86	0.93	1.0
220	10*10.5	440	0.2	10	0.66	0.86		0.93	1.0		
330	10*10.5	440	0.2	22-470	0.93	0.97		1.0	1.0		



SV 标准品

- 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.



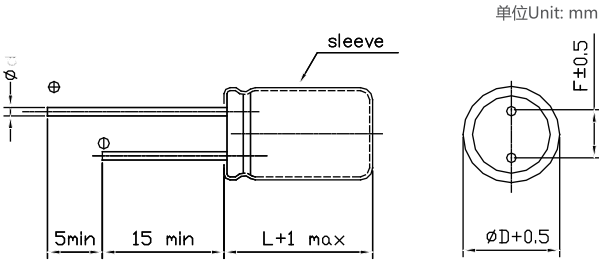
主要技术性能 Specifications

项目 Item	特性 Performance Characteristics							
使用温度范围 Operating Temperature Range	-40℃ ~+85℃							
额定电压范围 Rated Voltage Range	4~50V							
标称电容量范围 Nominal Capacitance Range	0.1 ~470μF							
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, +20℃)							
漏电流 Leakage Current	I≤0.01CV (μA)或3μA 2分钟(at 20℃,after 2 minutes) 取较大者(Whichever is greater)							
损耗角正切值 (tgδ) Dissipation Factor (+20℃, 120Hz)	U _R (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 _R (V)	4	6.3	10	16	25	35	50
	Z-25℃ / Z+20℃	7	4	3	2	2	2	2
	Z-40℃ / Z+20℃	15	10	6	4	4	3	3
耐久性 Load Life	+85℃加额定电压1000小时，恢复16小时后： After applying rated voltage for 1000 hours at +85℃ 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							
高温贮存 Shelf Life	+85℃, 1000小时贮存后,恢复16小时后： After storage for 1000 hours at +85℃ 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)	60	120	1K	≥10k
CAP(μF)				
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



D	3	4	5	6.3	8
F	1.0	1.5	2.0	2.5	3.5
d	0.4	0.45			

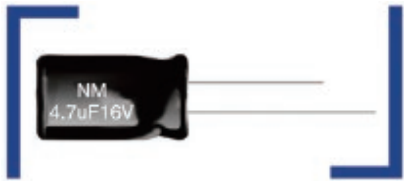
尺寸 Dimensions

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													3×5	1.0
														4×5	1.5
0.22	R22													3×5	2.0
														4×5	2.6
0.33	R33													3×5	3.0
														4×5	3.2
0.47	R47													3×5	3.5
														4×5	4.0
1	010													3×5	7
														4×5	8
2.2	2R2					4×5	6	4×5	7	3×5	8	3×5	8	3×5	10
														4×5	13
3.3	3R3					4×5	8	4×5	9	3×5	10	4×5	14	4×5	17
4.7	4R7					4×5	12	3×5	13	4×5	16	4×5	18	5×5	20
10	100			3×5	15	3×5	17	3×5	23	5×5	27	5×5	29	6.3×5	33
22	220	3×5	19	3×5	28	3×5	33	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 Ripple Current (mA rms) at 85℃ 120Hz

NM 双极性品

- 5mm高，双极性
Be 5mm in height, Bi-polar
- 适用于信号耦合等极性需反转变换电路
Used in circuits what polarity is reversed, such as signal coupling, etc.
- ROHS指令已对应完毕。
Adapted to the ROHS directive.



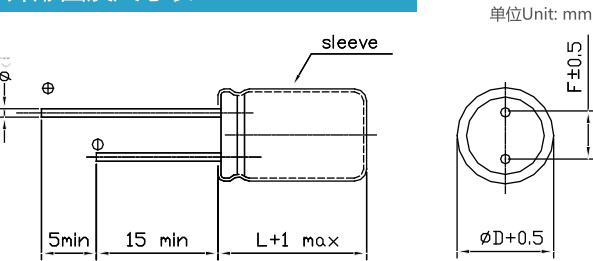
主要技术性能 Specifications

项目 Item	特性 Performance Characteristics						
使用温度范围 Operating Temperature Range	-40℃ ~ +85℃						
额定电压范围 Rated Voltage Range	6.3~50V						
标称电容量范围 Nominal Capacitance Range	0.1 ~47μF						
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, +20℃)						
正反漏电流 Leakage Current	I≤0.05CV or 10(μA) 2分钟(at 20℃,after 2 minutes) 取较大者(whichever is greater)						
损耗角正切值 (tgδ) Dissipation Factor (+20℃, 120Hz)	U _R (V)	6.3	10	16	25	35	50
	tgδ	0.28	0.24	0.20	0.18	0.15	0.15
温度特性Temperature Characteristics (Impedance ratio at 120Hz)	U _R (V)	6.3	10	16	25	35	50
	Z-25℃ / Z+20℃	4	3	2	2	2	2
	Z-40℃ / Z+20℃	8	6	4	4	3	3
耐久性 Load life	+85℃加额定电压1000小时 (每250小时反转极性一次) 恢复16小时后： After applying reted voltage for 1000 hours at +85℃ (with the polarity inverted every 250 hours) 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℃ , 1000小时贮存后, 恢复16小时后： After storage for 1000 hours at +85℃ 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
CAP(uF)				
0.1 ~ 47	0.8	1	1.45	1.7

外形图及尺寸表 Case Size Table



D	4	5	6.3
F	1.5	2.0	2.5
d	0.45		

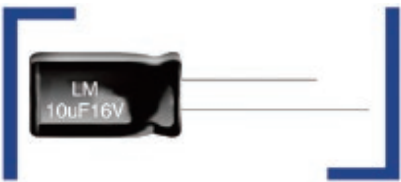
尺寸 Dimensions

WV CAP(μF)		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
0.1	0R1											4×5	1.0
0.22	R22											4×5	2.0
0.33	R33											4×5	2.8
0.47	R47											4×5	4.0
1	010											4×5	8.4
2.2	2R2											5×5	13
3.3	3R3							5×5	12	5×5	15	5×5	17
4.7	4R7					4×5	12	5×5	16	5×5	18	6.3×5	20
10	100			4×5	17	5×5	23	6.3×5	27	6.3×5	29	6.3×5	33
22	220	5×5	28	6.3×5	33	6.3×5	37	6.3×5	42				
33	330	6.3×5	37	6.3×5	41								
47	470	6.3×5	45										

Size φD×L(mm)
Maximum Allowable Ripple Current (mA rms) at 85℃ 120Hz

LM低漏电品

- 5mm高度，良好的低漏电特性 5mmL, extremely low leakage current.
- 适用于高保真前置放大及电视振荡回路
Used in HI-FI pre-amplifiers and TV oscillation loop circuits.
- ROHS指令已对应完毕。 Adapted to the ROHS directive



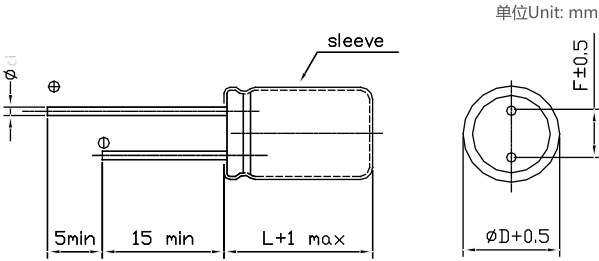
主要技术性能 Specifications

项目 Item	特性 Performance Characteristics							
使用温度范围 Operating Temperature Range	-40℃ ~+85℃							
额定电压范围 Rated Voltage Range	6.3~63V							
标称电容容量范围 Nominal Capacitance Range	0.1 ~ 100μF							
标称电容容量允许偏差 Capacitance Tolerance	±20% (120Hz, +20℃)							
漏电流 Leakage Current	I ≤0.002CV or 0.4(μA) 2分钟(at 20℃,after 2 minutes) 取较大者 (whichever is greater)							
损耗角正切值 (tgδ) Dissipation Factor (+20℃, 120Hz)	U _R (V)	6.3	10	16	25	35	50	63
	tgδ	0.26	0.22	0.18	0.16	0.14	0.12	0.10
温度特性Temperature Characteristics (Impedance ratio at 120Hz)	U _R (V)	6.3	10	16	25	35	50	63
	Z-25℃ / +20℃	4	3	2	2	2	2	2
	Z-40℃ / +20℃	10	8	6	4	3	3	3
耐久性 Load Life	+85℃加额定电压1000小时，恢复16小时后： After applying reted voltage for 1000 hours at +85℃ 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 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℃，1000小时贮存后，加额定工作电压处理30分钟，恢复16小时后： After storage for 1000 hours at +85℃, U _R to be applied for 30 minutes and then resumed 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 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
CAP(μF)				
0.1 ~ 22	0.8	1	1.5	1.7
33 ~ 100	0.8	1	1.25	1.35

外形图及尺寸表 Case Size Table



D	4	5	6.3
F	1.5	2.0	2.5
d	0.45		



尺寸 Dimensions

WV CAP(μF)		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
0.1	0R1													4×5	0.7
0.22	R22													4×5	1.3
0.33	R33													4×5	1.9
0.47	R47													4×5	2.7
1	010													4×5	5.5
2.2	2R2											4×5	8	4×5	9
3.3	3R3											4×5	10	5×5	11
4.7	4R7									4×5	11	4×5	12	5×5	13
10	100					4×5	14	4×5	15	5×5	18	5×5	20	6.3×5	22
22	220			4×5	19	5×5	22	5×5	25	6.3×5	28	6.3×5	31		
33	330	5×5	19	5×5	25	5×5	27	6.3×5	30	6.3×5	34				
47	470	5×5	22	5×5	30	6.3×5	34	6.3×5	38						
100	101	6.3×5	37	6.3×5	46										

Size φD×L(mm)
Maximum Allowable Ripple Current (mA rms) at 85℃ 120Hz

KF

宽温度品

- 5mm高度，105℃。5mmL, 105℃
- 适用于移动通讯、袖珍对讲机、汽车音响等电路
Used in locomotive communication, pocked intercom telephone and car audio circuits, etc.
- ROHS指令已对应完毕。Adapted to the ROHS directive.



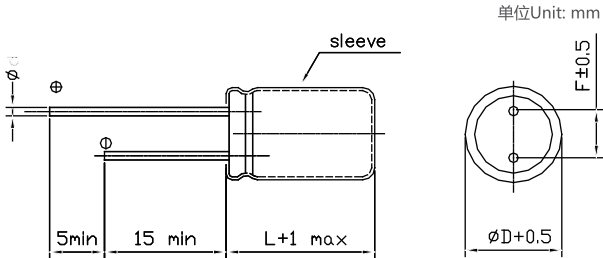
主要技术性能 Specifications

项目 Items	特性 Performance Characteristics							
使用温度范围 Operating Temperature Range	-40℃ ~+105℃							
额定电压范围 Rated Voltage Range	4~50V							
标称容量范围 Nominal Capacitance Range	0.1 ~ 220μF							
标称容量允许偏差 Capacitance Tolerance	±20% (120Hz, +20℃)							
漏电流 Leakage Current	I ≤0.01CV or 3(μA) 2分钟(at 20℃,after 2 minutes) 取最大者 (whichever is greater)							
损耗角正切值 (tgδ) Dissipation Factor (+20℃, 120Hz)	U _R (V)	4	6.3	10	16	25	35	50
	tgδ	0.35	0.24	0.20	0.16	0.14	0.12	0.10
温度特性Temperature Characteristics (Impedance ratio at 120Hz)	U _R (V)	4	6.3	10	16	25	35	50
	Z-25℃ / Z+20℃	7	4	3	2	2	2	2
	Z-40℃ / Z+20℃	15	10	8	6	4	3	3
耐久性 Load Life	+105℃加额定电压1000小时，恢复16小时后： After applying reted voltage for 1000 hours at +105℃ 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:≤±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							
高温贮存 Shelf Life	+105℃，1000小时贮存后，恢复16小时后： After storage for 1000 hours at +105℃ 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:≤±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)	60	120	1K	≥10K
CAP(μF)				
0.1 ~ 68	0.8	1	1.3	1.5
100 ~ 220	0.8	1	1.15	1.2

外形图及尺寸表 Case Size Table



D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45			



尺寸 Dimensions

WV CAP(μF)		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	1.0
0.22	R22													4×5	2.6
0.33	R33													4×5	3.2
0.47	R47													4×5	3.8
1	010													4×5	6.2
2.2	2R2													4×5	11
3.3	3R3													4×5	14
4.7	4R7									4×5	13	4×5	15	5×5	19
10	100			4×5	13	4×5	15	4×5	18	5×5	23	5×5	25	6.3×5	30
22	220	4×5	22	4×5	22	5×5	27	5×5	30	6.3×5	38	6.3×5	48	8×5	60
33	330	5×5	30	5×5	30	5×5	35	6.3×5	40	6.3×5	48				
47	470	5×5	36	5×5	36	6.3×5	46	6.3×5	50	6.3×5	55				
100	101	6.3×5	60	6.3×5	60	6.3×5	65	6.3×5	75	8×5	80				
220	221	8×5	100	8×5	110	8×5	120								

Size φD×L(mm)
Maximum Allowable Ripple Current (mA rms) at 105℃ 120Hz



SC 标准品

- 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.



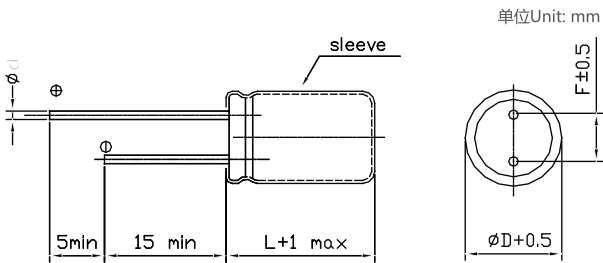
主要技术性能 Specifications

项目 Item	特性 Performance Characteristics							
使用温度范围 Operating Temperature Range	-40℃ ~ +85℃							
额定电压范围 Rated Voltage Range	6.3~63V							
标称电容量范围 Nominal Capacitance Range	0.1 ~ 470μF							
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, +20℃)							
漏电流 Leakage Current	I ≤0.01CV or 3(μA) 2分钟(at 20℃,after 2 minutes) 取较大者 (whichever is greater)							
损耗角正切值 (tgδ) Dissipation Factor (+20℃, 120Hz)	U _R (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 _R (V)	6.3	10	16	25	35	50	63
	Z-25℃ / +20℃	4	3	2	2	2	2	2
	Z-40℃ / +20℃	8	6	4	4	3	3	3
耐久性 Load Life	+85℃加额定电压1000小时，恢复16小时后： After applying reted voltage for 1000 hours at +85℃ 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℃，1000小时贮存后，恢复16小时后： After storage for 1000 hours at +85℃ 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
CAP(μF)				
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



D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45		0.5	

尺寸 Dimensions

WV CAP(μF)		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
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
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				
								8×9	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℃ 120Hz