

STANDARD

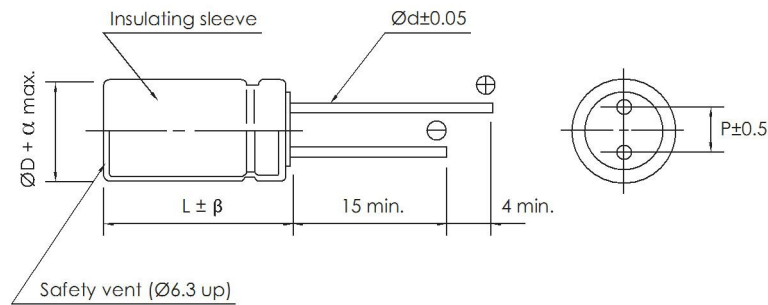
标准品

- Standard series for general purpose
标准品通用型
- High performance and high reliability
高性能与高可靠
- Load life of 2000 hours at 85°C
在 85°C 环境中负荷寿命 2000 小时
- Comply with the RoHS directive
符合 RoHS 指令

SPECIFICATIONS 特性表

Items 项目	Characteristics 主要特性	
Operation Temperature Range 使用温度范围	-40 ~ +85°C	-25 ~ +85°C
Voltage Range 额定工作电压范围	6.3 ~ 100V	160 ~ 450V
Capacitance Range 静电容量范围	0.1 ~ 22000μF	0.47 ~ 470μF
Capacitance Tolerance 静电容量允许偏差	±20% at 120Hz, 20°C	
Leakage Current 漏电流	Leakage current = 0.01CV or 3μA, whichever is greater (after 2 minutes application of rated voltage) 漏电流 = 0.01CV 或 3μA, 取较大值 (施加额定工作电压 2 分钟后)	Leakage current = 0.02CV + 15μA (after 5 minutes application of rated voltage) 漏电流 = 0.02CV + 15μA (施加额定工作电压 5 分钟后)
Dissipation Factor (tan δ) 损耗角正切	When nominal capacitance is over 1000μF, tan δ shall be added 0.02 to the listed value with increase of every 1000μF. 当标称静电容量大于 1000μF, 其标称静电容量每增加 1000μF, 损耗角正切增加 0.02。 Measurement frequency 测试频率: 120Hz, Temperature 温度: 20°C	
Stability at Low Temperature 低温特性	Rated Voltage (V) 额定工作电压	6.3 10 16 25 35 50 63 100 160~250 350~450
	tan δ (max.) 最大损耗角正切	0.24 0.20 0.16 0.14 0.12 0.10 0.09 0.08 0.15 0.20
	Measurement frequency 测试频率: 120Hz	
	Rated Voltage (V) 额定工作电压	6.3 10 16 25 35~100 160 200~350 400,450
Load Life 高温负荷特性	Impedance Ratio 阻抗比	Z(-25°C) / Z(20°C) 4 3 2 2 2 4 8 16
		Z(-40°C) / Z(20°C) 10 8 6 4 3 8 12 —
	After 2000 hours application of the rated voltage at 85°C, they meet the characteristics listed below. 在 85°C 环境中施加额定工作电压 2000 小时后, 电容器的特性符合下表的要求。	
Shelf Life 高温贮存特性	Capacitance Change 静电容量变化率	Within ±20% of initial measured value 初始值的±20%以内
	Dissipation Factor 损耗角正切	≤200% of initial specified value 不大于规范值的 200%
	Leakage Current 漏电流	≤initial specified value 不大于规范值
Marking 标识	Printed with white colour on black sleeve (PET) or printed with white colour on green sleeve (PVC). 黑色胶管白字印刷 (PET) 或绿色胶管白字印刷 (PVC)。	

DRAWING (Unit: mm) 外形图



ØD	5	6.3	8 (L≤11.5)	8 (L≥16)	10	13	16	18	22	25
P	2.0	2.5	3.5		5.0		7.5		10.0	12.5
Ød	0.5			0.6			0.8			
β	1.5					2.0				
α	0.5								1.0	

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT 纹波电流频率补偿系数

Frequency 频率		50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient 系数	0.1 ~ 47μF	0.75	1.0	1.35	1.55	2.0
	68 ~ 680μF	0.80	1.0	1.25	1.34	1.5
	1000 ~ 22000μF	0.85	1.0	1.10	1.13	1.15

Note: All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety for your application, please contact us immediately for technical assistance before purchase.
注: 以上所提供的设计及特性参数仅供参考, 任何修改不作预先通知。如果在使用上有疑问, 请在采购前与我们联系, 以便提供技术上的协助。



☐ DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT 规格尺寸及最大允许纹波电流

WV Code 代码 μF		6.3	10	16	25	35	50	63
		0J	1A	1C	1E	1V	1H	1J
0.1	0R1						5 × 11	5 × 11
0.22	R22						5 × 11	5 × 11
0.33	R33						5 × 11	5 × 11
0.47	R47						5 × 11	5 × 11
0.68	R68						5 × 11	5 × 11
1	010						5 × 11	5 × 11
2.2	2R2						5 × 11	5 × 11
3.3	3R3						5 × 11	5 × 11
4.7	4R7						5 × 11	5 × 11
6.8	6R8						5 × 11	5 × 11
10	100			5 × 11	50	5 × 11	60	5 × 11
22	220		5 × 11	50	5 × 11	90	5 × 11	100
33	330		5 × 11	65	5 × 11	95	5 × 11	110
47	470		5 × 11	80	5 × 11	115	5 × 11	130
68	680		5 × 11	80	5 × 11	140	6.3 × 11.5	170
100	101	5 × 11	134	5 × 11	140	5 × 11	180	5 × 11
220	221	5 × 11	200	5 × 11	220	6.3 × 11.5	260	6.3 × 11.5
330	331	6.3 × 11.5	240	6.3 × 11.5	290	6.3 × 11.5	300 (340)	8 × 11.5
470	471	6.3 × 11.5	340	6.3 × 11.5 (8 × 11.5)	350 (410)	8 × 11.5	440	8 × 11.5 (8 × 16)
680	681	8 × 11.5	468	8 × 11.5	470	8 × 16	560	10 × 16
1000	102	8 × 11.5	580	8 × 12 (8 × 16 (10 × 12))	540 (550 (650))	8 × 16 (10 × 16)	770 (845)	10 × 16
2200	222	8 × 20 (10 × 16)	660 (845)	10 × 20	1070	10 × 20	1210	13 × 21 (13 × 25)
3300	332	10 × 20	1185	13 × 21	1420	13 × 25	1400	13 × 21 (16 × 25)
4700	472	13 × 21	1545	13 × 25	1780	16 × 25	1700	16 × 31
6800	682	13 × 25	1880	16 × 25	1870	16 × 31	2100	18 × 35
10000	103	16 × 31	2215	16 × 35	2250	18 × 35	2590	22 × 40
15000	153	18 × 31	2250	18 × 35	2820	22 × 40	3100	
22000	223	22 × 40	3140					

WV Code 代码 μF		100	160	200	250	350	400	450
		2A	2C	2D	2E	2V	2G	2W
0.1	0R1	5 × 11	7.2					
0.22	R22	5 × 11	11					
0.33	R33	5 × 11	13					
0.47	R47	5 × 11	16	5 × 11	12	5 × 11	12	6.3 × 11.5
0.68	R68	5 × 11	20	5 × 11	15	5 × 11	15	6.3 × 11.5
1	010	5 × 11	25	5 × 11	18	5 × 11	18	6.3 × 11.5
2.2	2R2	5 × 11	33	6.3 × 11.5	25	6.3 × 11.5	33	6.3 × 11.5
3.3	3R3	5 × 11	40	6.3 × 11.5	35	6.3 × 11.5	46	6.3 × 11.5
4.7	4R7	5 × 11	48	6.3 × 11.5	42	6.3 × 11.5	50	8 × 11.5
6.8	6R8	5 × 11	55	8 × 11.5	58	8 × 11.5	67	8 × 11.5
10	100	5 × 11	65	10 × 12	75	10 × 12	85	10 × 12
22	220	6.3 × 11.5	124	10 × 16	130	10 × 16	135	10 × 20
33	330	8 × 11.5	177	10 × 16	175	10 × 20	180	13 × 21
47	470	10 × 12	235	13 × 21	235	13 × 21	250	13 × 21
68	680	10 × 16	293	13 × 21	330	13 × 25	340	16 × 25
100	101	10 × 20	405	13 × 25	440	16 × 25	460	16 × 25
220	221	13 × 25	640	16 × 31	790	16 × 35	830 (850)	18 × 35
330	331	13 × 25	757	18 × 31	970	18 × 35	1150	
470	471	16 × 25	910	18 × 40	1150			
680	681	16 × 31	1365					
1000	102	18 × 40	1820					

•Case size $\varnothing D \times L$ (mm), ripple current (mA rms) at 85°C, 120Hz •尺寸 $\varnothing D \times L$ (mm), 纹波电流(mA rms)于 85°C, 120Hz

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