Zkhycon®
中科华源

HGP 导电性高分子混合型铝电解电容器(标准品) -引线型

Conductive Polymer Hybrid Aluminum Electrolytic Capacitors (Standard Type)- Radial Type

特点 Features

- 小型化、低漏电流、高可靠性。
  Low profile、Low DC Leakage current、High reliability.
- 保证105℃ 5000小时。
  Endurance: 5000 h at 105℃ .

主要技术性能 Specifications

项目 Items	特性 Characteristics	
工作温度范围 Operating Temperature Range	-55~+105℃	
额定电压范围 Rated Voltage Range	10~100V DC	
标称电容量范围 Nominal Capacitance Range	22~2200μF	
标称电容量允许偏差 Nominal Capacitance Tolerance	±20%(20℃，120Hz)	
漏电流 Leakage Current	≤0.05CV(μA) or 80μA ,whichever is greater 20℃， 2分钟 at 20℃， after 2 minutes C：静电容量(μF)、V：额定电压(VDC)	
损耗角正切(tgδ) Dissipation Factor (Max)	20℃, 120Hz	额定电压(Vdc) 10~25V 35~100V Tgδ 0.14 0.10
等效串联电阻 ESR	参照规格表 Reference parameter table (mΩ at 100k~300kHz 20℃ max)	
高低温特性比 Characteristics of impedance ratio at high temp. and low temp	要求在100KHZ Based the value at 100KHZ.	Z(-25℃)/Z(+25℃)≤1.5 Z(-55℃)/Z(+25℃)≤2.0
耐久性 Load Life	在105℃环境中，不超过额定电压的范围下叠加额定纹波电流，连续加载额定电压5,000小时，待温度恢复到20℃后进行测试，电容器应满足以下要求: The capacitor shall be subjected to application of the D.C. voltage with full rated ripple current at +105 ℃ for 5000 hours. After stabilizing at 20 ℃, the capacitor shall not exceed the specified limits. (The sum of DC voltage and ripple peak voltage shall not exceed the rated voltage.)	
	电容量变化率 Capacitance Change	±25%初始值以内 Within ±25% of the initial value
	损耗角正切 Dissipation Factor	≤ 200%初始规定值 Not to exceed 200% of the value specified
	阻抗 Equivalent Series Resistance	≤ 200%初始规定值 Not to exceed 200% of the value specified
	漏电流 Leakage Current	≤ 初始规定值 Not to exceed the value specified
高温贮存 Shelf Life Test	在105℃±2℃环境中，无负荷放置1000H后，待温度恢复到20℃后进行测试，电容器应满足以下要求: After storage for 1000 hours at +105℃±2℃ with no voltage applied and then being stabilized at +20℃ the capacitor shall not exceed the specified values listed below.	
	电容量变化率 Capacitance Change	±25%初始值以内 Within ±25% of the initial value
	损耗角正切 Dissipation Factor	≤ 200%初始规定值 Not to exceed 200% of the value specified
	阻抗 Equivalent Series Resistance	≤ 200%初始规定值 Not to exceed 200% of the value specified
	漏电流 Leakage Current	≤ 初始规定值 Not to exceed the value specified

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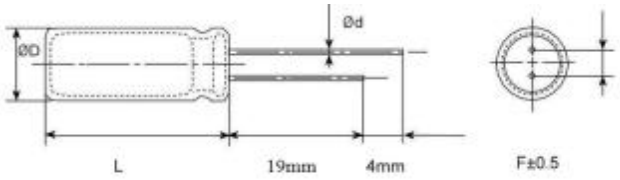
尺寸图 Dimensions



尺寸表 Size List

单位 Unit: mm

φD(+0.5max)	8	10
F(±0.5)	3.5	5
φd(±0.05)	0.6	0.6
L	+1.0max	

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

Rated Volt. (V)	Capacitance (uF)	Size ΦD×L(mm)	Tanδ (120HZ,20℃)	LC (μA)	ESR (mΩ/at 100k~300kHz 20℃ max)	Rated R. C. (mA/rms at 100kHz, 105℃)
10	1000	8×12	0.14	500	16	3300
	1200	8×16	0.14	600	14	3500
	1500	10×12.5	0.14	750	13	3650
	2200	10×16	0.14	1100	12	3800
16	470	8×12	0.14	376	26	2450
	820	8×12	0.14	656	23	2900
	1000	8×16	0.14	800	20	3100
	1000	10×12.5	0.14	800	20	3100
	1000	10×16	0.14	800	16	3600
	1200	8×16	0.14	960	20	3100
	1500	10×12.5	0.14	1200	18	3300
	2200	10×16	0.14	1760	16	3600
25	180	8×12	0.14	225	28	2100
	220	10×12	0.14	275	22	2400
	270	8×12	0.14	337	28	2100
	330	8×12	0.14	412	24	2100
	330	10×12.5	0.14	412	20	2500
	390	8×12	0.14	487	23	2300
	470	8×12	0.14	587	23	2300
	470	8×16	0.14	587	21	2500
	470	10×12.5	0.14	587	20	2600
	680	8×16	0.14	850	20	2600
	680	10×12.5	0.14	850	18	2800
	680	10×16	0.14	850	16	3100
	820	10×16	0.14	1025	16	3100
	820	10×12.5	0.14	1025	18	2800
	1000	10×16	0.14	1250	16	3100

Rated Volt. (V)	Capacitance (uF)	Size ΦD×L(mm)	Tanδ (120HZ,20℃)	LC (μA)	ESR (mΩ/at 100k~300kHz 20℃ max)	Rated R. C. (mA/rms at 100kHz, 105℃)
35	100	8×11	0.1	175	30	1600
	150	10×10	0.1	262	28	1900
	220	8×12	0.1	385	24	2100
	220	10×12.5	0.1	385	22	2400
	270	8×16	0.1	472	22	2200
	330	8×16	0.1	577	22	2200
	330	10×12.5	0.1	577	20	2500
	390	10×12.5	0.1	682	20	2500
	470	10×16	0.1	822	18	2800
50	68	10×12	0.1	170	30	1700
	100	8×12	0.1	250	30	1600
	150	8×16	0.1	375	28	1800
	180	10×12.5	0.1	450	26	2000
	220	8×14	0.1	550	30	1800
	220	8×16	0.1	550	28	1900
	220	10×12.5	0.1	550	24	2300
	270	10×16	0.1	675	24	2300
63	22	8×12	0.1	80	55	1200
	47	10×10	0.1	148	36	1400
	47	8×11.5	0.1	148	40	1300
	82	8×12	0.1	258	36	1400
	47	8×16	0.1	315	32	1600
	47	10×12.5	0.1	315	30	1700
	150	10×12.5	0.1	472	30	1800
	180	10×16	0.1	567	28	2100
80	33	8×12	0.1	132	55	1200
	47	8×16	0.1	188	50	1400
	56	10×12.5	0.1	224	45	1600
	82	10×16	0.1	328	40	1800
100	22	8×12	0.1	110	55	1200
	27	8×16	0.1	135	50	1400
	33	10×12.5	0.1	165	45	1600
	47	10×12.5	0.1	235	45	1700
	47	10×16	0.1	235	40	1800

额定纹波电流频率修正系数
Frequency correction factor for ripple current

Frequency(KHz)	0.1≤Freq. ≤0.5	0.5 < Freq. ≤1	1 < Freq. ≤5	5 < Freq. ≤10	10 < Freq. ≤50	50 < Freq. < 100	100≤Freq. ≤300
Coefficient	0.10	0.30	0.4	0.6	0.75	0.9	1