

SEK

基板自立型: 105℃ 2,000小时时间品
Snap-in Terminal Type Load Life:105℃ 2,000 hours

规格表 SPECIFICATIONS

项目 Item	性能 Performance				
工作温度范围 Category Temperature Range	-25 ~ 105℃				
额定电压范围 Rated Voltage Range	160 ~ 400V.DC				
静电容量允许偏差 Electrostatic Capacitance Tolerance	± 20% (20℃, 120Hz)				
漏电流 Leakage Current	I ≤ 3√cv (5分钟值) (5minutes)				
	I=漏电流 V=额定电压	Leakage Current (μA)	C=静电容量	Electrostatic Capacitance(μF)	
损耗角正切值 Dissipation Factor	20℃ 120Hz				
	额定电压 Rated Voltage	160	200	250	350 400
	tan δ (Max)	0.20			
温度特性 / 阻抗比 Temperature Stability / Impedance Ratio	120Hz				
	额定电压 Rated Voltage	160	200	250	350 400
	Z-25℃/Z+20℃	4			
耐久性 Endurance	在105℃的环境中, 在不超过额定电压的范围内重叠印加规定的额定纹波电流2,000小时后应符合下列要求。 After 2,000 hour life test at 105℃ with rated voltage and ripple current,the capacitors shall meet the following requirements .				
	静电容量变化率 Electrostatic Capacitance Change	初始值的 ± 20% ± 20% of the initial value			
	损耗角正切值 Dissipation Factor	初始值的200% 200% of the initial value			
	漏电流 Leakage Current	初始规格值 The initial specification value			
高温无负荷特性 Shelf Life	经过1,000个小时的保质寿命试验105℃,然后在20℃保存。经过预处理后 (JIS C 5102规范4.4), 电容器应符合下列要求。 After 1,000 hour shelf life test at 105℃,then stored at 20℃.And after pre-treatment (JIS C 5102 4.4),the capacitors shall meet the following requirements.				
	静电容量变化率 Electrostatic Capacitance Change	初始值的 ± 20% ± 20% of the initial value			
	修正系数 Correction Coefficient	初始值 ± 10% Initial value ± 10%	初始值 ± 15% Initial value ± 15%	初始值 ± 20% Initial value ± 20%	初始值 ± 30% Initial value ± 30%
		0.7	0.85	1	2.47
	损耗角正切值 Dissipation Factor	初始值的200% 200% of the initial value			
漏电流 Leakage Current	初始规格值 The Initial specification value				

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■ 纹波电流修正系数 / CORRECTION COEFFICIENT FOR RIPPLE CURRENT

1. 频率系数 Frequency Coefficient

频率 Frequency	60 (50)	120	500	1K	≥10K
系数 Coefficient	0.80	1.00	1.20	1.30	1.50

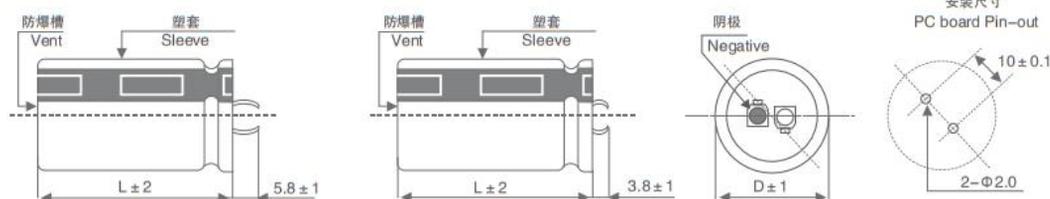
2. 周围温度系数 Temperature Coefficient

周围温度(℃) Ambient Temperature	105	85	65
系数 Coefficient	1.0	1.7	2.1

■ 尺寸图 / DIMENSIONS

标准端子 / Standard terminal type

短端子 / Short terminal type



■ 产品代码规则 / PRODUCT CODE SYSTEM



■ 产品型号体系 / PRODUCT MODE

电压代码 Voltage Code	系列代码 Series Code	容量代码 Capacitance Code	允许偏差代码 Allowable Tolerance Code	尺寸代码 Size Code	设计代码 Design code	端子 Terminal
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标准品一览表、额定纹波电流

TYPICAL DIMENSIONS、RATED RIPPLE CURRENT

V.DC	Cpa (uF)	外壳尺寸 Case Size φD±1×L± 2mm	纹波电流 arms/105°C Ripple current Arms/105°C, 120Hz	产品型号 Part No	V.DC	Cpa (uF)	外壳尺寸 Case Size φD±1×L± 2mm	纹波电流 arms/105°C Ripple current Arms/105°C, 120Hz	产品型号 Part No
160	150	22 × 15	0.61	160SEK151M2215YZB	350	47	22 × 15	0.37	350SEK470M2215YZB
	180	22 × 15	0.65	160SEK181M2215YZB		56	25 × 15	0.41	350SEK560M2515YZB
	220	25 × 15	0.76	160SEK221M2515YZB		68	30 × 15	0.46	350SEK680M3015YZB
	270	30 × 15	0.81	160SEK271M3015YZB		82	30 × 15	0.56	350SEK820M3015YZB
	330	30 × 15	0.95	160SEK331M3015YZB		100	35 × 15	0.61	350SEK101M3515YZB
	390	35 × 15	1.05	160SEK391M3515YZB		120	35 × 15	0.76	350SEK121M3515YZB
200	100	22 × 15	0.42	200SEK101M2215YZB	400	39	22 × 15	0.32	400SEK390M2215YZB
	120	22 × 15	0.45	200SEK121M2215YZB		47	25 × 15	0.36	400SEK470M2515YZB
	150	25 × 15	0.55	200SEK151M2515YZB		56	30 × 15	0.38	400SEK560M3015YZB
	180	25 × 15	0.68	200SEK181M2515YZB		68	30 × 15	0.44	400SEK680M3015YZB
	220	30 × 15	0.78	200SEK221M3015YZB		82	35 × 15	0.53	400SEK820M3515YZB
	270	30 × 15	0.92	200SEK271M3015YZB		100	35 × 15	0.57	400SEK101M3515YZB
	330	35 × 15	1.05	200SEK331M3515YZB					
250	100	22 × 15	0.46	250SEK101M2215YZB					
	120	25 × 15	0.51	250SEK121M2515YZB					
	150	30 × 15	0.68	250SEK151M3015YZB					
	180	30 × 15	0.81	250SEK181M3015YZB					
	220	35 × 15	0.86	250SEK221M3515YZB					
	270	35 × 15	0.93	250SEK271M3515YZB					

●重要说明 Important note

- ◆KAOUNE并不了解每一个客户对产品的应用，也不比客户更了解他们对产品的应用。因此，客户负有最终的责任，根据其整机电路参数选择适合其的KAOUNE产品，并根据KAOUNE产品参数判定其是否适用。
- ◆我们也毫不避讳地指出，即使在正常的应用条件下无源电子元器件仍有可能在使用寿命结束前出现故障或失效。这在目前的技术水平下是无法完全排除的。因此，对于操作安全水平要求非常高的应用场合，特别是当无源电子元器件出现故障时可能会危及人身安全或健康的情况下，客户必须适当设计其应用装置或由客户采取措施（如安全保护性电路或冗余），确保在无源电子元件出现故障时，第三方不会受到伤害或损害。
- ◆我们的工程师持续不断地致力于改善产品。因此，本出版物所述产品可能会发生变化。所以，订货之前或订货的时候请咨询我们的销售工程师本出版物的产品说明和规格在多大程度上是适用的。我们保留产品尺寸及技术参数发生变更的权利。因此，我们不保证任何时候均可购买到本出版物所列全部产品。
- ◆由于客户的应用领域、安装尺寸、回路参数要求千差万别，对于同一电压同一容值的电容器亦是如此。因此，建议在订货前尽可能详尽地提供您所要求的信息，包括但不限于电压、容值、外形尺寸、安装尺寸及本出版物中《订货信息一览表》中所列明的项目。
- ◆KAOUNE do not understand each client on the application of the product, nor more than customers about their products. Customers have the ultimate responsibility to select suitable KAOUNE products for their whole circuit parameters, and under KAOUNE products parameters determine its applicability.
- ◆We also forthrightly pointed out that even in normal conditions of passive electronic components, it is still will failure or breakdown before the end of its useful life. And it cannot be completely excluded in the current level of technology. Therefore, requires a high level of operational safety applications, especially when passive electronic components failure could endanger the personal safety or health of the case, The customer must be properly designed appliance or measures taken by the customer (such as security protective circuitry or redundancy), to ensure when the failure in the passive electronic components, the third party will not harm or damage.
- ◆KAOUNE engineers constantly committed to improve the product. Therefore, the publication of the product may change. Therefore, please consult our sales engineer before order. We reserve the right to change the product dimensions and technical parameters. Therefore, we cannot guarantee that at any time can be purchased to the publications listed all products.
- ◆Due to the customer's applications, installation size, circuit parameters requirements vary widely, as well as the same capacitor values for the same voltage. Therefore, we suggest that provide requested information as much details as possible before order, including but not limited to voltage, capacitance, dimensions, installation size and the other parameters items of order information.

● 敬告和警告 Warning



- ◆ 电容器经过耐压测试后或退出运行后，其上存储的能量足以对人身造成伤害。因此，在接触电容器出线端子之前必须首先经过电阻放电、再短接引出端子，确保残余电荷泄放掉。
- ◆ 金属化薄膜介质电容器不应过多直接短路放电。短路放电试验属于型式试验项目，做过型式试验的产品不宜再正常使用。
- ◆ 进行耐压测试会对其绝缘造成损害，且该损害具备累积效应。
- ◆ 电容器与电路的连接应可靠，避免接触不良引起高频振荡造成电容器过压或过热。
- ◆ 避免电容器暴露于强酸、强碱及其他腐蚀性介质的环境中运行。
- ◆ 避免电容器在充满易燃易爆的气体或尘埃的环境中运行。
- ◆ 避免外部能量传导到电容器内部，如火、热、雷电。
- ◆ 避免电容器过温运行。
- ◆ 避免电容器异常过载。
- ◆ 避免核辐射。

- ◆ After resistant voltage test or out of operation, the capacitor stored energy is sufficient to cause the damage to the human. Therefore, in contact with the capacitor outlet terminals must discharge through the resistor first, and then short-circuited lead terminal, ensure that the residual charge of release.
- ◆ Metalized film dielectric capacitors should not over discharge to the short circuit. Short circuit discharge test are type of pilot projects, the test products are not appropriate to normal use.
- ◆ Excessive resistant voltage capacitor test will damage the insulation, and the damage has a cumulative effect.
- ◆ The capacitor circuit connection should be reliable, to avoid capacitor overvoltage or overheating by high-frequency oscillation because of poor contact.
- ◆ Avoid capacitor is exposed to strong acid, alkali and other corrosive medium environment operate.
- ◆ Avoid the capacitor filled with flammable and explosive gas or dust environment operate.
- ◆ Avoid external energy transmitted to the capacitor internal, such as fire, heat, electricity.
- ◆ Avoid capacitor operate over-temperature.
- ◆ Avoid capacitor abnormal overload.
- ◆ Avoid nuclear radiation.