SEV

基板自立型：105℃ 8,000小时时间品
Snap-in Terminal Type Load Life:105℃ 8,000 hours

规格表 SPECIFICATIONS

项目	性能						
工作温度范围 Category Temperature Range	-25 ~ 105℃						
额定电压范围 Rated Voltage Range	160 ~ 450V.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 Leakage Current（μA） C=静电容量 Electrostatic Capacitance（μF） V=额定电压 Rated Voltage (V)						
损耗角正切值 Dissipation Factor	20℃ 120Hz						
	额定电压 (V) Rated Voltage	160	200	250	350	400	450
	tan δ (Max)	0.15					0.20
温度特性 / 阻抗比 Temperature Stability / Impedance Ratio	120Hz						
	额定电压 (V) Rated Voltage	160	200	250	350	400	450
	Z-25℃/Z+20℃	4			8		
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8,000小时后应符合下列要求. After 8,000 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 Frequence Coefficient

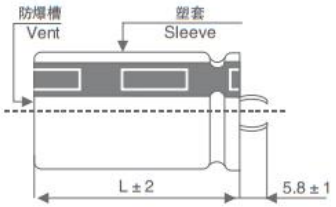
频率 Frequency	60 (50)	120	500	1K	≧10K
160~250V.DC	0.80	1.00	1.17	1.32	1.45
350~450V.DC	0.77	1.00	1.16	1.30	1.41

2. 周围温度系数 Temperature Coefficient

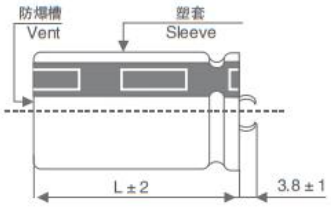
周围温度 (℃) Ambient Temperature	105	85	65
系数 Coefficient	1.0	1.7	2.1

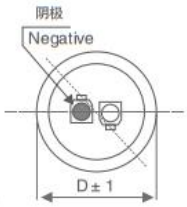
■ 尺寸图 / DIMENSIONS

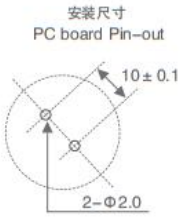
标准端子 / Standard terminal type



短端子 / Short terminal type







■ 产品代码规则 / PRODUCT CODE SYSTEM

□□□ SEV □□□ M □□□□ Y Z B

- B：端子长度/ terminal length（B:5.8±1mm S：3.8±1mm）
- Z：端子类型/ terminal type（2 pins）
- Y：设计代码/ design code
- 尺寸/ Size（25×35：2535）
- 允许偏差 / Rated Capacitance Tolerance(±20%)
- 电容/ Capacitance（390uF：391；6800uF：682；82uF：820）
- 产品系列 / Series
- 电压/ Voltage（400V：400；50V：050）

■ 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℃ Ripple current Arms/105℃, 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℃ Ripple current Arms/105℃, 120Hz	产品型号 Part No
160	270	22×25	1.10	160SEV271M2225YZB	200	220	22×25	1.00	200SEV221M2225YZB
	330	22×30	1.20	160SEV331M2230YZB		270	22×30	1.10	200SEV271M2230YZB
	390	22×30	1.30	160SEV391M2230YZB		270	25×25	1.10	200SEV271M2525YZB
	390	25×25	1.30	160SEV391M2525YZB		330	22×30	1.20	200SEV331M2230YZB
	470	22×35	1.40	160SEV471M2235YZB		330	25×25	1.20	200SEV331M2525YZB
	470	25×30	1.40	160SEV471M2530YZB		390	22×35	1.30	200SEV391M2235YZB
	560	22×40	1.50	160SEV561M2240YZB		390	25×30	1.30	200SEV391M2530YZB
	560	25×30	1.50	160SEV561M2530YZB		390	30×25	1.30	200SEV391M3025YZB
	560	30×25	1.50	160SEV561M3025YZB		470	22×40	1.40	200SEV471M2240YZB
	680	22×45	1.70	160SEV681M2245YZB		470	25×35	1.40	200SEV471M2535YZB
	680	25×35	1.70	160SEV681M2535YZB		470	30×30	1.40	200SEV471M3030YZB
	680	30×30	1.70	160SEV681M3030YZB		560	22×45	1.50	200SEV561M2245YZB
	820	25×40	2.00	160SEV821M2540YZB		560	25×35	1.50	200SEV561M2535YZB
	820	30×30	2.00	160SEV821M3030YZB		560	30×30	1.50	200SEV561M3030YZB
	1,000	25×45	2.20	160SEV102M2545YZB		680	25×40	1.70	200SEV681M2540YZB
	1,000	30×35	2.20	160SEV102M3035YZB		680	30×35	1.70	200SEV681M3035YZB
	1,200	25×50	2.30	160SEV122M2550YZB		820	25×50	2.00	200SEV821M2550YZB
	1,200	30×40	2.30	160SEV122M3040YZB		820	30×40	2.00	200SEV821M3040YZB
	1,200	35×35	2.30	160SEV122M3535YZB		820	35×30	2.00	200SEV821M3530YZB
	1,500	30×45	2.50	160SEV152M3045YZB		1,000	30×45	2.20	200SEV102M3045YZB
	1,500	35×35	2.50	160SEV152M3535YZB		1,000	35×35	2.20	200SEV102M3535YZB
	1,800	30×50	2.70	160SEV182M3050YZB		1,200	30×50	2.30	200SEV122M3050YZB
	1,800	35×40	2.70	160SEV182M3540YZB		1,200	35×40	2.30	200SEV122M3540YZB
	2,200	35×50	2.90	160SEV222M3550YZB		1,500	35×50	2.50	200SEV152M3550YZB

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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℃ Ripple current Arms/105℃, 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℃ Ripple current Arms/105℃, 120Hz	产品型号 Part No
250	180	22×30	0.90	250SEV181M2230YZB	350	82	22×25	0.64	350SEV820M2225YZB
	180	25×25	0.90	250SEV181M2525YZB		100	22×30	0.69	350SEV101M2230YZB
	220	22×30	1.00	250SEV221M2230YZB		100	25×25	0.69	350SEV101M2525YZB
	220	25×25	1.00	250SEV221M2525YZB		120	22×35	0.75	350SEV121M2235YZB
	270	22×35	1.10	250SEV271M2235YZB		120	25×30	0.75	350SEV121M2530YZB
	270	25×30	1.10	250SEV271M2530YZB		150	22×40	0.82	350SEV151M2240YZB
	270	30×25	1.10	250SEV271M3025YZB		150	25×30	0.82	350SEV151M2530YZB
	330	22×40	1.20	250SEV331M2240YZB		150	30×25	0.82	350SEV151M3025YZB
	330	25×35	1.20	250SEV331M2535YZB		180	22×45	0.90	350SEV181M2245YZB
	330	30×30	1.20	250SEV331M3030YZB		180	25×35	0.90	350SEV181M2535YZB
	390	22×45	1.30	250SEV391M2245YZB		180	30×30	0.90	350SEV181M3030YZB
	390	25×35	1.30	250SEV391M2535YZB		220	22×50	1.00	350SEV221M2250YZB
	390	30×30	1.30	250SEV391M3030YZB		220	25×40	1.00	350SEV221M2540YZB
	470	25×45	1.40	250SEV471M2545YZB		220	30×30	1.00	350SEV221M3030YZB
	470	30×35	1.40	250SEV471M3035YZB		270	25×50	1.10	350SEV271M2550YZB
	470	35×30	1.40	250SEV471M3530YZB		270	30×35	1.10	350SEV271M3035YZB
	560	25×50	1.50	250SEV561M2550YZB		270	35×30	1.10	350SEV271M3530YZB
	560	30×35	1.50	250SEV561M3035YZB		330	30×45	1.20	350SEV331M3045YZB
	560	35×30	1.50	250SEV561M3530YZB		330	35×35	1.20	350SEV331M3535YZB
	680	30×45	1.70	250SEV681M3045YZB		390	30×50	1.30	350SEV391M3050YZB
	680	35×35	1.70	250SEV681M3535YZB		390	35×40	1.30	350SEV391M3540YZB
	820	30×50	2.00	250SEV821M3050YZB		470	35×40	1.40	350SEV471M3540YZB
	820	35×40	2.00	250SEV821M3540YZB		560	35×50	1.50	350SEV561M3550YZB
	1,000	35×45	2.20	250SEV102M3545YZB					
	1,200	35×50	2.30	250SEV122M3550YZB					

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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℃ Ripple current Arms/105℃, 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℃ Ripple current Arms/105℃, 120Hz	产品型号 Part No
400	56	22×25	0.51	400SEV560M2225YZB	450	39	22×25	0.37	450SEV390M2225YZB
	68	22×30	0.56	400SEV680M2230YZB		47	22×30	0.40	450SEV470M2230YZB
	68	25×25	0.56	400SEV680M2525YZB		56	22×35	0.47	450SEV560M2235YZB
	82	22×35	0.64	400SEV820M2235YZB		56	25×25	0.47	450SEV560M2525YZB
	82	25×25	0.64	400SEV820M2525YZB		68	22×40	0.53	450SEV680M2240YZB
	100	22×35	0.69	400SEV101M2235YZB		68	25×30	0.53	450SEV680M2530YZB
	100	25×30	0.69	400SEV101M2530YZB		82	22×45	0.56	450SEV820M2245YZB
	120	22×40	0.75	400SEV121M2240YZB		82	25×35	0.56	450SEV820M2535YZB
	120	25×35	0.75	400SEV121M2535YZB		82	30×25	0.56	450SEV820M3025YZB
	120	30×25	0.75	400SEV121M3025YZB		100	22×50	0.64	450SEV101M2250YZB
	150	22×50	0.82	400SEV151M2250YZB		100	25×40	0.64	450SEV101M2540YZB
	150	25×40	0.82	400SEV151M2540YZB		100	30×30	0.64	450SEV101M3030YZB
	150	30×30	0.82	400SEV151M3030YZB		120	25×45	0.72	450SEV121M2545YZB
	180	25×45	0.90	400SEV181M2545YZB		120	30×30	0.72	450SEV121M3030YZB
	180	30×35	0.90	400SEV181M3035YZB		150	25×50	0.79	450SEV151M2550YZB
	180	35×25	0.90	400SEV181M3525YZB		150	30×40	0.79	450SEV151M3040YZB
	220	25×50	1.00	400SEV221M2550YZB		150	35×30	0.79	450SEV151M3530YZB
	220	30×40	1.00	400SEV221M3040YZB		180	30×45	0.87	450SEV181M3045YZB
	220	35×30	1.00	400SEV221M3530YZB		180	35×35	0.87	450SEV181M3535YZB
	270	30×45	1.10	400SEV271M3045YZB		220	30×50	1.00	450SEV221M3050YZB
	270	35×35	1.10	400SEV271M3535YZB		220	35×40	1.00	450SEV221M3540YZB
	330	30×50	1.20	400SEV331M3050YZB		270	35×45	1.19	450SEV271M3545YZB
	330	35×40	1.20	400SEV331M3540YZB		330	35×50	1.38	450SEV331M3550YZB
	390	35×45	1.30	400SEV391M3545YZB					
	470	35×50	1.40	400SEV471M3550YZB					

●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 responsibi ity to select suitable KAOUNEproducts for their whole circuit parameters, and under KAOUNEproducts parameters determine its applicability.

◆We also forthrightly pointed out that even in normal conditions of passive electronic components, it is still wi l 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

◆电容器经过耐电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，确保残存电荷泄放掉。

◆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。

◆进行耐电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.