SEW

基板自立型：105℃ 10,000小时时间品
Snap-in Terminal Type Load Life:105℃ 0,000 hours

规格表 SPECIFICATIONS

<table>
<tr><td>项目</td><td colspan="5">性能</td></tr>
<tr><td>工作温度范围
Category Temperature Range</td><td colspan="5">-25 ~ 105℃</td></tr>
<tr><td>额定电压范围
Rated Voltage Range</td><td colspan="5">200 ~ 450V.DC</td></tr>
<tr><td>静电容量允许偏差
Electrostatic Capacitance Tolerance</td><td colspan="5">±20% （20℃, 120Hz)</td></tr>
<tr><td rowspan="2">漏电流
Leakage Current</td><td colspan="5">I≦3√CV（5分钟值）（5minutes)</td></tr>
<tr><td colspan="5">I=漏电流 Leakage Current（μA） C=静电容量 Electrostatic Capacitance（μF）
V=额定电压 Rated Voltage (V)</td></tr>
<tr><td rowspan="3">损耗角正切值
Dissipation Factor</td><td colspan="5">20℃ 120Hz</td></tr>
<tr><td>额定电压 (V)
Rated Voltage</td><td>200~250</td><td>400</td><td colspan="2">450</td></tr>
<tr><td>tan δ (Max)</td><td>0.20</td><td>0.15</td><td colspan="2">0.20</td></tr>
<tr><td rowspan="3">温度特性 / 阻抗比
Temperature Stability / Impedance Ratio</td><td colspan="5">120Hz</td></tr>
<tr><td>额定电压 (V)
Rated Voltage</td><td colspan="2">200~250</td><td colspan="2">400~450</td></tr>
<tr><td>Z-25℃/Z+20℃</td><td colspan="2">4</td><td colspan="2">8</td></tr>
<tr><td rowspan="4">耐久性
Endurance</td><td colspan="5">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10,000小时后应符合下列要求.
After 10,000 hour life test at 105℃ with rated voltage and ripple current, the capacitors shall meet the following requirements .</td></tr>
<tr><td colspan="2">静电容量变化率
Electrostatic Capacitance Change</td><td colspan="3">初始值的 ± 20%
±20% of the initial value</td></tr>
<tr><td colspan="2">损耗角正切值
Dissipation Factor</td><td colspan="3">初始值的200%
200% of the initial value</td></tr>
<tr><td colspan="2">漏电流
Leakage Current</td><td colspan="3">初始规格值
The initial specification value</td></tr>
<tr><td rowspan="5">高温无负荷特性
Shelf Life</td><td colspan="5">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.</td></tr>
<tr><td colspan="2">静电容量变化率
Electrostatic Capacitance Change</td><td colspan="3">初始值的± 20%
± 20% of the initial value</td></tr>
<tr><td colspan="2" rowspan="2">修正系数
Correction Coefficient</td><td>初始值±10%
Initial value ± 10%</td><td>初始值±15%
Initial value ± 15%</td><td>初始值±20%
Initial value ± 20%</td><td>初始值±30%
Initial value ±30%</td></tr>
<tr><td>0.7</td><td>0.85</td><td>1</td><td>2.47</td></tr>
<tr><td colspan="2">损耗角正切值
Dissipation Factor</td><td colspan="4">初始值的200%
200% of the initial value</td></tr>
<tr><td colspan="2">漏电流
Leakage Current</td><td colspan="4">初始规格值
The Initial specification value</td></tr>
</table>

SEW

基板自立型：105℃ 10,000小时时间品

Snap-in Terminal Type Load Life:105℃ 10,000 hours

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

1. 频率系数 Frequence Coefficient

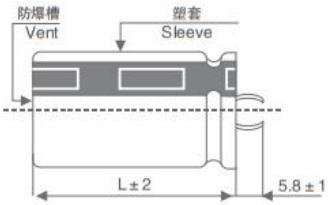
频率 Frequency	60（50）	120	500	1K	≧10K
系数 Coefficient	0.80	1.00	1.17	1.32	1.45

2. 周围温度系数 Temperature Coefficient

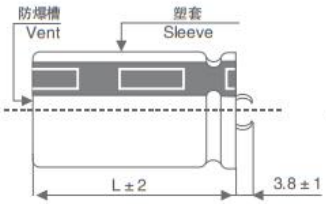
周围温度（℃） Ambient Temperature	105	85	65
系数 Coefficient	1.0	1.7	2.1

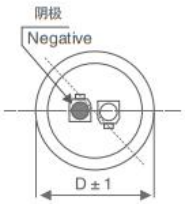
■ 尺寸图 / DIMENSIONS

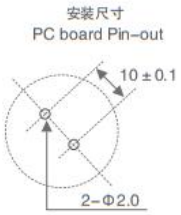
标准端子 / Standard terminal type



短端子 / Short terminal type







■ 产品代码规则 / PRODUCT CODE SYSTEM

□□□ SEW □□□ 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（2pins）
- 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

SEW

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
200	220	22×25	0.75	200SEW221M2225YZB	250	150	22×25	0.60	250SEW151M2225YZB
	270	22×30	0.85	200SEW271M2230YZB		180	22×30	0.70	250SEW181M2230YZB
	270	25×25	0.85	200SEW271M2525YZB		180	25×25	0.70	250SEW181M2525YZB
	330	22×35	1.00	200SEW331M2235YZB		220	22×35	0.83	250SEW221M2235YZB
	330	25×30	1.00	200SEW331M2530YZB		220	25×30	0.83	250SEW221M2530YZB
	390	22×35	1.10	200SEW391M2235YZB		270	22×40	0.92	250SEW271M2240YZB
	390	25×30	1.10	200SEW391M2530YZB		270	25×30	0.92	250SEW271M2530YZB
	390	30×25	1.10	200SEW391M3025YZB		330	22×45	1.00	250SEW331M2245YZB
	470	22×45	1.24	200SEW471M2245YZB		330	25×35	1.00	250SEW331M2535YZB
	470	25×35	1.24	200SEW471M2535YZB		330	30×25	1.00	250SEW331M3025YZB
	470	30×25	1.24	200SEW471M3025YZB		390	22×50	1.20	250SEW391M2250YZB
	560	22×50	1.40	200SEW561M2250YZB		390	25×40	1.20	250SEW391M2540YZB
	560	25×40	1.40	200SEW561M2540YZB		390	30×30	1.20	250SEW391M3030YZB
	560	30×30	1.40	200SEW561M3030YZB		470	25×45	1.40	250SEW471M2545YZB
	680	25×45	1.67	200SEW681M2545YZB		470	30×35	1.40	250SEW471M3035YZB
	680	30×35	1.67	200SEW681M3035YZB		470	35×30	1.40	250SEW471M3530YZB
	680	35×30	1.67	200SEW681M3530YZB		560	25×50	1.55	250SEW561M2550YZB
	820	25×50	1.83	200SEW821M2550YZB		560	30×40	1.55	250SEW561M3040YZB
	820	30×40	1.83	200SEW821M3040YZB		560	35×30	1.55	250SEW561M3530YZB
	820	35×30	1.83	200SEW821M3530YZB		680	30×45	1.83	250SEW681M3045YZB
	1,000	30×45	2.10	200SEW102M3045YZB		680	35×40	1.83	250SEW681M3540YZB
	1,000	35×35	2.10	200SEW102M3535YZB		820	30×50	2.09	250SEW821M3050YZB
	1,200	30×50	2.44	200SEW122M3050YZB		820	35×45	2.09	250SEW821M3545YZB
	1,200	35×40	2.44	200SEW122M3540YZB		1,000	35×50	2.40	250SEW102M3550YZB
	1,500	35×45	2.85	200SEW152M3545YZB					

SEW

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	0.37	400SEW560M2225YZB	450	39	22×25	0.32	450SEW390M2225YZB
	68	22×30	0.44	400SEW680M2230YZB		47	22×30	0.36	450SEW470M2230YZB
	82	22×35	0.43	400SEW820M2235YZB		47	25×25	0.36	450SEW470M2525YZB
	82	25×25	0.43	400SEW820M2525YZB		56	22×35	0.43	450SEW560M2235YZB
	100	22×40	0.55	400SEW101M2240YZB		56	25×30	0.43	450SEW560M2530YZB
	100	25×30	0.55	400SEW101M2530YZB		68	22×40	0.46	450SEW680M2240YZB
	120	22×45	0.62	400SEW121M2245YZB		68	25×30	0.46	450SEW680M2530YZB
	120	25×35	0.62	400SEW121M2535YZB		82	22×40	0.51	450SEW820M2240YZB
	120	30×25	0.62	400SEW121M3025YZB		82	25×35	0.51	450SEW820M2535YZB
	150	22×50	0.74	400SEW151M2250YZB		82	30×25	0.51	450SEW820M3025YZB
	150	25×40	0.74	400SEW151M2540YZB		100	22×50	0.60	450SEW101M2250YZB
	150	30×30	0.74	400SEW151M3030YZB		100	25×40	0.60	450SEW101M2540YZB
	180	25×45	0.85	400SEW181M2545YZB		100	30×30	0.60	450SEW101M3030YZB
	180	30×35	0.85	400SEW181M3035YZB		120	25×45	0.69	450SEW121M2545YZB
	180	35×30	0.85	400SEW181M3530YZB		120	30×35	0.69	450SEW121M3035YZB
	220	25×50	0.94	400SEW221M2550YZB		120	35×30	0.69	450SEW121M3530YZB
	220	30×40	0.94	400SEW221M3040YZB		150	25×50	0.78	450SEW151M2550YZB
	220	35×30	0.94	400SEW221M3530YZB		150	30×40	0.78	450SEW151M3040YZB
	270	30×45	1.11	400SEW271M3045YZB		150	35×30	0.78	450SEW151M3530YZB
	270	35×35	1.11	400SEW271M3535YZB		180	30×45	0.91	450SEW181M3045YZB
	330	30×50	1.28	400SEW331M3050YZB		180	35×35	0.91	450SEW181M3535YZB
	330	35×40	1.28	400SEW331M3540YZB		220	30×50	1.05	450SEW221M3050YZB
	390	35×45	1.45	400SEW391M3545YZB		220	35×40	1.05	450SEW221M3540YZB
	470	35×50	1.66	400SEW471M3550YZB		270	35×45	1.20	450SEW271M3545YZB
						330	35×50	1.29	450SEW331M3550YZB

●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.