

# SEU

基板自立型: 105℃ 5,000小时时间品  
Snap-in Terminal Type Load Life:105℃ 5,000 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 ~ 600V.DC							
静电容量允许偏差 Electrostatic Capacitance Tolerance	± 20% ( 20℃, 120Hz)							
漏电流 Leakage Current	$I \leq 3\sqrt{CV}$ (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	450~600	
	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	450~600	
	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,5,000小时后应符合下列要求。 After 5,000 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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基板自立型: 105°C 5,000小时时间品  
Snap-in Terminal Type Load Life:105°C 5,000 hours

## ■ 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
160~250V.DC	0.80	1.00	1.17	1.32	1.45
350~600V.DC	0.77	1.00	1.16	1.30	1.41

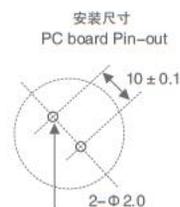
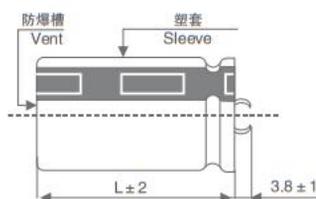
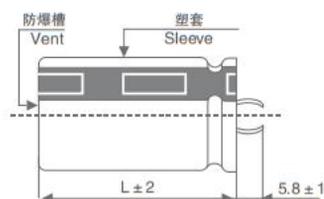
### 2. 周围温度系数 Temperature Coefficient

周围温度 (°C) 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

□□□ SEU □□□ 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 a rms/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 a rms/105°C Ripple current Arms/105°C, 120Hz	产品型号 Part No
160	390	22 × 25	1.32	160SEU391M2225YZB	200	270	22 × 25	1.10	200SEU271M2225YZB
	560	22 × 30	1.66	160SEU561M2230YZB		390	22 × 30	1.38	200SEU391M2230YZB
	560	25 × 25	1.68	160SEU561M2525YZB		390	25 × 25	1.39	200SEU391M2525YZB
	680	22 × 35	1.87	160SEU681M2235YZB		470	22 × 35	1.55	200SEU471M2235YZB
	680	25 × 30	1.88	160SEU681M2530YZB		560	22 × 40	1.73	200SEU561M2240YZB
	680	30 × 25	1.96	160SEU681M3025YZB		560	25 × 30	1.71	200SEU561M2530YZB
	820	22 × 40	2.09	160SEU821M2240YZB		560	30 × 25	1.78	200SEU561M3025YZB
	1,000	22 × 50	2.41	160SEU102M2250YZB		680	22 × 45	1.84	200SEU681M2245YZB
	1,000	25 × 35	2.38	160SEU102M2535YZB		680	25 × 35	1.87	200SEU681M2535YZB
	1,000	30 × 30	2.40	160SEU102M3030YZB		680	30 × 30	1.98	200SEU681M3030YZB
	1,000	35 × 25	2.55	160SEU102M3525YZB		680	35 × 25	2.10	200SEU681M3525YZB
	1,200	25 × 40	2.71	160SEU122M2540YZB		820	22 × 50	2.18	200SEU821M2250YZB
	1,200	30 × 35	2.77	160SEU122M3035YZB		820	25 × 40	2.09	200SEU821M2540YZB
	1,200	35 × 30	2.86	160SEU122M3530YZB		820	30 × 35	2.22	200SEU821M3035YZB
	1,500	25 × 50	3.08	160SEU152M2550YZB		1,000	25 × 50	2.39	200SEU102M2550YZB
	1,500	30 × 40	3.17	160SEU152M3040YZB		1,000	30 × 40	2.53	200SEU102M3040YZB
	1,500	35 × 35	3.22	160SEU152M3535YZB		1,000	35 × 30	2.61	200SEU102M3530YZB
	1,800	30 × 50	3.53	160SEU182M3050YZB		1,200	30 × 50	2.88	200SEU122M3050YZB
	1,800	35 × 40	3.66	160SEU182M3540YZB		1,200	35 × 35	2.88	200SEU122M3535YZB
	2,200	35 × 45	4.14	160SEU222M3545YZB		1,500	35 × 40	3.29	200SEU152M3540YZB
2,700	35 × 50	4.68	160SEU272M3550YZB	1,800	35 × 50	3.82	200SEU182M3550YZB		

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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	220	22×25	1.01	250SEU221M2225YZB	315	150	22×25	0.80	315SEU151M2225YZB
	270	22×30	1.20	250SEU271M2230YZB		220	22×35	1.04	315SEU221M2235YZB
	330	25×25	1.32	250SEU331M2525YZB		220	30×25	1.17	315SEU221M3025YZB
	390	22×35	1.44	250SEU391M2235YZB		270	22×40	1.18	315SEU271M2240YZB
	390	25×30	1.43	250SEU391M2530YZB		270	25×30	1.19	315SEU271M2530YZB
	390	30×25	1.51	250SEU391M3025YZB		330	25×35	1.37	315SEU331M2535YZB
	470	22×40	1.62	250SEU471M2240YZB		330	30×30	1.40	315SEU331M3030YZB
	560	22×50	1.84	250SEU561M2250YZB		390	25×40	1.52	315SEU391M2540YZB
	560	25×35	1.78	250SEU561M2535YZB		470	25×45	1.70	315SEU471M2545YZB
	560	30×30	1.83	250SEU561M3030YZB		470	30×35	1.71	315SEU471M3035YZB
	560	35×25	1.94	250SEU561M3525YZB		560	30×45	1.97	315SEU561M3045YZB
	680	25×45	2.04	250SEU681M2545YZB		560	35×35	2.00	315SEU561M3535YZB
	680	30×35	2.06	250SEU681M3035YZB		680	30×50	2.21	315SEU681M3050YZB
	680	35×30	2.15	250SEU681M3530YZB		680	35×40	2.29	315SEU681M3540YZB
	820	25×50	2.28	250SEU821M2550YZB		820	35×45	2.57	315SEU821M3545YZB
	820	30×45	2.39	250SEU821M3045YZB		1,000	35×50	2.87	315SEU102M3550YZB
	820	35×35	2.38	250SEU821M3535YZB					
	1,000	30×50	2.68	250SEU102M3050YZB					
1,000	35×40	2.72	250SEU102M3540YZB						
1,200	35×40	3.05	250SEU122M3540YZB						
1,500	35×50	3.49	250SEU152M3550YZB						

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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 A rms/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 A rms/105°C, 120Hz	产品型号 Part No
350	120	22 × 25	0.72	350SEU121M2225YZB	400	100	22 × 30	0.66	400SEU101M2230YZB
	150	22 × 30	0.84	350SEU151M2230YZB		120	22 × 35	0.75	400SEU120M2235YZB
	180	25 × 25	0.94	350SEU181M2525YZB		150	22 × 40	0.86	400SEU151M2240YZB
	220	22 × 40	1.06	350SEU221M2240YZB		150	25 × 30	0.86	400SEU151M2530YZB
	220	25 × 30	1.07	350SEU221M2530YZB		180	22 × 45	0.96	400SEU181M2245YZB
	220	30 × 25	1.13	350SEU221M3025YZB		180	25 × 35	0.97	400SEU181M2535YZB
	270	22 × 45	1.20	350SEU271M2245YZB		180	30 × 30	1.02	400SEU181M3030YZB
	270	25 × 35	1.24	350SEU271M2535YZB		220	22 × 50	1.09	400SEU221M2250YZB
	270	30 × 30	1.27	350SEU271M3030YZB		220	25 × 40	1.12	400SEU221M2540YZB
	330	22 × 50	1.39	350SEU331M2250YZB		220	35 × 30	1.22	400SEU221M3530YZB
	330	25 × 40	1.39	350SEU330M2540YZB		270	25 × 50	1.26	400SEU271M2550YZB
	330	30 × 35	1.43	350SEU331M3035YZB		270	30 × 35	1.27	400SEU271M3035YZB
	390	25 × 45	1.55	350SEU391M2545YZB		330	30 × 40	1.43	400SEU331M3040YZB
	390	30 × 40	1.60	350SEU391M3040YZB		330	35 × 35	1.52	400SEU331M3535YZB
	390	35 × 35	1.66	350SEU391M3535YZB		390	30 × 45	1.60	400SEU391M3045YZB
	470	25 × 50	1.72	350SEU471M2550YZB		390	35 × 40	1.67	400SEU391M3540YZB
	470	30 × 45	1.81	350SEU471M3045YZB		470	35 × 45	1.90	400SEU471M3545YZB
	470	35 × 35	1.83	350SEU471M3535YZB		560	35 × 50	2.12	400SEU561M3550YZB
	560	30 × 50	2.00	350SEU561M3050YZB		680	35 × 60	2.52	400SEU681M3560YZB
	560	35 × 40	2.07	350SEU561M3540YZB		820	35 × 70	2.70	400SEU821M3570YZB
680	35 × 40	2.34	350SEU681M3540YZB	1000	40 × 70	3.28	400SEU102M4070YZB		
820	35 × 50	2.62	350SEU821M3550YZB						

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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	
450	82	22 × 30	0.59	450SEU820M2230YZB	500	470	35 × 60	1.75	500SEU471M3560YZB	
	100	22 × 35	0.69	450SEU101M2235YZB		680	35 × 70	1.86	500SEU681M3570YZB	
	100	25 × 30	0.70	450SEU101M2530YZB	550	220	35 × 40	0.86	550SEU221M3540YZB	
	120	22 × 40	0.77	450SEU121M2240YZB		270	35 × 45	1.00	550SEU271M3545YZB	
	150	22 × 50	0.90	450SEU151M2250YZB		330	35 × 55	1.20	550SEU331M3555YZB	
	150	25 × 40	0.92	450SEU151M2540YZB		390	35 × 60	1.36	550SEU391M3560YZB	
	150	30 × 30	0.93	450SEU151M3030YZB		470	35 × 70	1.60	550SEU471M3570YZB	
	180	25 × 45	1.03	450SEU181M2545YZB		470	40 × 55	1.55	550SEU471M4055YZB	
	180	30 × 35	1.03	450SEU181M3035YZB		470	40 × 60	1.61	550SEU471M4060YZB	
	180	35 × 25	1.01	450SEU181M3525YZB		560	35 × 80	1.85	550SEU561M3580YZB	
	220	25 × 50	1.16	450SEU221M2550YZB		680	40 × 80	2.19	550SEU681M4080YZB	
	220	30 × 40	1.17	450SEU221M3040YZB		820	40 × 95	2.60	550SEU821M4095YZB	
	220	35 × 30	1.24	450SEU221M3530YZB		600	220	35 × 45	0.74	600SEU221M3545YZB
	270	30 × 45	1.33	450SEU271M3045YZB			270	35 × 50	0.86	600SEU271M3550YZB
	270	35 × 35	1.39	450SEU271M3535YZB	330		35 × 60	1.03	600SEU331M3560YZB	
	330	30 × 40	1.45	450SEU331M3040YZB	390		35 × 70	1.20	600SEU391M3570YZB	
	330	30 × 50	1.51	450SEU331M3050YZB	390		40 × 60	1.21	600SEU391M4060YZB	
	330	35 × 40	1.58	450SEU331M3540YZB	470		35 × 80	1.40	600SEU471M3580YZB	
	390	35 × 45	1.77	450SEU391M3545YZB	560		40 × 80	1.65	600SEU561M4080YZB	
	470	35 × 50	1.98	450SEU471M3550YZB	680		40 × 90	1.91	600SEU681M4090YZB	
560	35 × 55	2.14	450SEU561M3550YZB	820	40 × 100		2.20	600SEU821M40100YZB		
680	35 × 60	2.30	450SEU681M3560YZB							
820	35 × 70	2.70	450SEU821M3570YZB							

## ●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.