

## CCF1F 片式电流保险丝

Chip Current Fuses

保险丝 Fuses



外观颜色：白色 Coating color: White

### 特点 Features

- 依据 IEC60127-4。(7A以下)
- 采用陶瓷本体，机械强度优异。
- 对应回流焊接和波峰焊接。
- 对应欧盟RoHS。
- Meets IEC60127-4 specifications. (7A or less)
- Stable fusing characteristics due to the original technology.
- Suitable for reflow and flow soldering.
- Products meet EU – RoHS requirements.

### 取得规格 Approvals Awarded

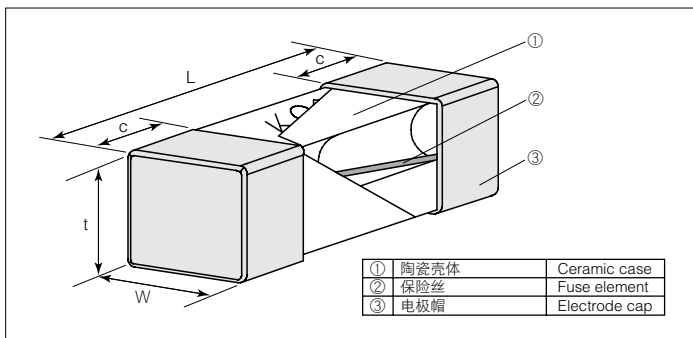
UL248.14 File No.E171861

c-UL(CSA)C22.2 No.248.14 File No.E171861

### 参考规格 Approvals Awarded

IEC60127-4 Universal modular fuse-Links Standard sheet2

### 结构图 Construction



### 外形尺寸 Dimensions

型号 Type	尺寸 Dimensions (mm)				Weight (g) (1000pcs)
	L±0.2	W±0.2	t±0.2	c±0.2	
CCF1F (2410)	6.1	2.5	2.5	1.4	110

### 品名构成 Type Designation

实例 Example	CCF	1	F	5	T	TE
品种 Product Code						
形状 style						
熔断特性 Fusing Characteristics						
额定电流 Rated Current						
端子表面材质 Terminal Surface Material						
二次加工 Taping						

F: 速断型  
F: Fast-Acting

T: Sn

TE: 4mm pitch plastic embossed  
BK: Bulk

预知关于此产品含有的环境负荷物质详情(除EU-RoHS以外)，请与我们联系。  
编带细节请参考卷末附录C。

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS.

For further information on taping, please refer to APPENDIX C on the back pages.

### 用途 Applications

- 液晶Inverter电源 Power supplies for LCD inverters
- 照明用Inverter电源 Power supplies for Illumination inverters
- 复印机, LBP Copying machines, Laser beam printers
- 工业用机器 Industrial equipment

### 额定值 Ratings

型号 Type	额定电流 Rated Current	额定电压 Rated Voltage	遮断容量 Interrupting Capacity	熔断特性 Fusing Characteristics		内部电阻值 Internal R. (mΩ) Max.	公称熔断值 Nominal Melting I <sup>2</sup> t (A <sup>2</sup> ·s)	编带和包装数/卷 Taping & Q'ty/Reel (pcs)
				额定电流 Rated Current	熔断时间 Fusing Time			TE
开发中	0.4A	UL(c-UL) AC125V DC125V	UL(c-UL) AC125V 50A DC125V 50A	UL(c-UL) 100% 200%	4h Min. 120s Max.	650	0.024	1,000
开发中	0.5A					510	0.030	
开发中	0.63A					390	0.052	
开发中	0.8A					250	0.125	
开发中	1A					90.4	0.156	
开发中	1.25A					75.9	0.220	
开发中	1.6A					59.3	0.513	
开发中	2A					42.9	0.814	
开发中	2.5A					36.6	1.31	
开发中	3.15A					26.0	2.37	
开发中	4A					20.1	3.85	
开发中	5A					15.3	6.5	
开发中	6.3A					11.4	10.6	
开发中	7A					10.6	12.8	
开发中	8A					9.5	17.0	
开发中	10A	7.5	27.7					
CCF1F12	12A	UL(c-UL) AC65V DC65V	UL(c-UL) AC65V 50A DC65V 50A			4.5	73.5	
CCF1F15	15A					3.5	125.5	

使用温度范围 Operating Temp. Range: -55℃~+125℃

本样本手册中记载的产品规格如有变更，恕不一一奉告。订购及使用之前，请仔细确认规格表的内容。  
用于车载设备、医疗设备、航空设备以及其它涉及人身安全、或可能引起重大损失的设备上时，请务必先与我司联系。这些产品在这类用途中出现故障或失灵可能导致人身事故或严重损坏。  
Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.  
Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment.  
Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

## ■ 降低额定值 Derating

### ● 稳恒电流

稳恒电流在重复脉冲时，稳恒电流波形的峰值是恒稳电流值。

### ● Stationary current

Regard the peak of stationary current waveform as stationary current value when the stationary current is repeated pulse.

### ● 通常降低额定值 Normal derating

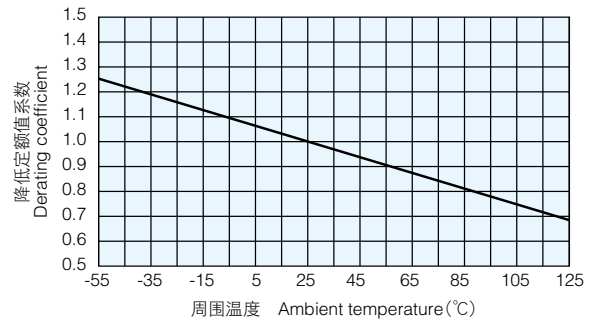
本产品的通常降低额定值为标准应在0.7以下。

Normal derating of this product should be 0.7max. as standards.

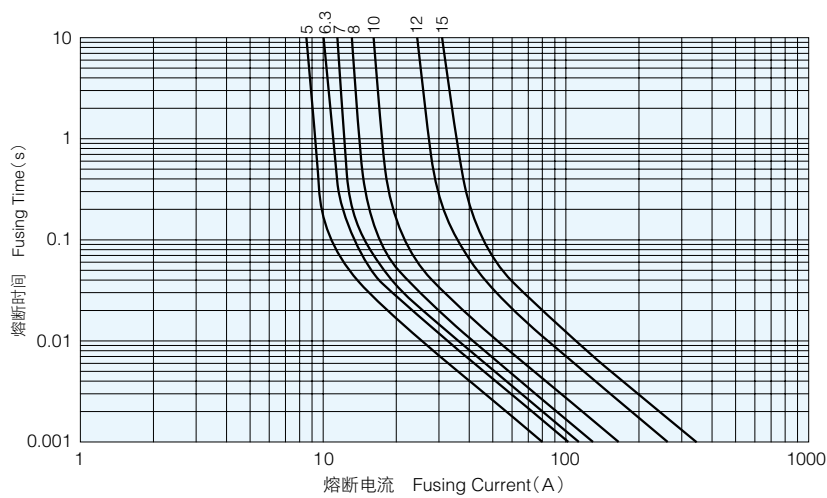
### ● 温度降低额定值 Deratings by ambient temperatures

如果在常温(25℃±5℃)以外的环境温度条件下使用本产品，必须进行温度修正，请参考右图的降低额定值系数。

When using the products at the temperatures other than normal temperature (25℃±5℃), temperature adjustment will be required. Please refer to the derating coefficient as shown in the figure.



## ■ 熔断特性 Fusing Characteristics



## ■ 性能 Performance

试验项目 Test Items	标准值 Performance Requirements $\Delta R \pm \%$	试验 Test	
	保证值 Limit	规格号 References	试验方法 Test Methods
熔断特性 Fusing characteristics	规定时间内熔断后的绝缘电阻在0.1M $\Omega$ 以上。 Within specified time. Insulation resistance shall not be less than 0.1M $\Omega$ .	IEC60127-4 9.2	2/N (额定电流200%)，10/N从通电流到熔断的时间测定 Fusing time measured under 2/N (Rated current 200%) and 10/N (Rated current 100%)
表面温度上升 Surface Temp. Rise	温度上升95℃以下，不熔断 (7A以下) Max. Temp. Rise 95℃ and not Fusing (7A or less)	IEC60127-4 9.7	1.25/N 1小时通电时，外壳的表面温度 Surface Temp. should be measured by 1.25/N
电压降 Voltage drop	温度上升75℃以下，不熔断 (全部额定) Max. Temp. Rise 75℃ and not Fusing (All the rating)	IEC60127-4 9.1	以额定电流通电时，测定保险丝温度达到一定时刻的电压 Voltage drop When the fuse-link has carried its rated current for a time sufficient to reach temp. stability.
最大连续损失功率 Maximum sustained dissipation	依照额定表 Given in Ratings.	IEC60127-4 9.5	1.25/N 通电1小时后，测定并算出电压降 At the end of electrify test to 1.25/N the voltage drop across the fuse-link is measured and used for the calculation of the sustained dissipation.
电极强度 Bending test	电压降不超过额定表的值 The voltage drop shall not exceed the ratings table.	IEC60127-4 8.3	支点间隔90mm，弯曲度1mm，速度1mm/1s Distance between holding points 90mm, bent by 1mm at rate of 1mm/s.
耐焊接热 Resistance to soldering heat	电压降不超过额定表的值 The voltage drop shall not exceed the ratings table.	IEC60127-4 8.7	260℃±5℃，10s±0.5s solder depth，测定焊接浸渍后的电压降 After the solder depth, voltage drop across the fuse-link is measured.
温度突变 Rapid change of temperature	$\Delta R \pm 10\%$	—	-55℃ (30min) / +125℃ (30min) 100 cycles

## ■ 使用注意事项 Precautions for Use

● 选定保险丝时，请与本目录内的「保险丝的使用注意事项」一起确认。

● When you select fuse product, please make sure to confirm "Precautions for Use of Fusing Components" in this catalogue and ask KOA sales.