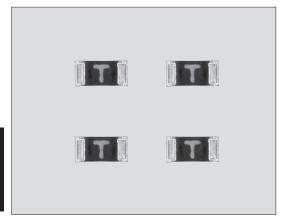


# **TF16AT** ■片式保险丝(冲击耐受电压) Chip Current Fuses (Anti Pulse)



#### 外观颜色: 黑色 Coating color: Black

#### ■ 特点 Features

- ●是小型、轻量的二次电路用片状电流保险丝。
- 冲击耐受电压性优异。
- ●根据独家的结构、制作方法,熔断特性稳定。
- ●可以把占有面积缩小。
- ●内部电阻值非常低,电压降低,可以减少功率消耗。
- ●适用于小型电子设备的电路配件过电流保护。
- ●对应回流焊、波峰焊。
- ●符合欧盟RoHS。
- Small and light chip current fuses for the secondary circuit.
- Excellent in anti-pulse characteristics.
- Original construction and manufacturing method stabilize fusing characteristics.
- Able to reduce an occupied area.
- Low power consumption and less voltage dropping due to exceedingly low internal resistance.
- Suitable for overcurrent protection of circuit block in small electronic devices.
- Suitable for both flow and reflow solderings.
- Products meet EU-RoHS requirements.

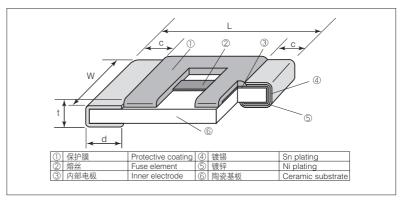
## ■ 取得规格 Approvals Awarded

UL248.14 认定文件号 File No. E131375 c-UL (CSA) C22.2 No.248.14 认定文件号 File No. E131375

## ■ 用途 Applications

●筆记本电脑 Notebook personal computers ● HDD、CD-ROM HDDs、CD-ROMs ●手机 Cellular-telephones ● 摄像机 Camcorders

#### ■ 结构图 Construction

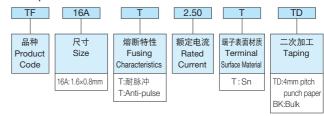


#### ■ 外形尺寸 **Dimensions**

型号 Type		尺寸 Dimensions (mm)						
(Inch Size Code)	L	W	С	d	t	(1000pcs)		
TF16AT (0603)	1.6±0.1	0.8±0.08	0.3±0.1	0.3±0.1	0.45±0.05	2.15		

## ■ 品名构成 Type Designation

## 实例 Example



欲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.

● 数码相机 Digital still cameras

PDP PDPs ● 电池组 Battery Packs

#### ■ 额定值 Ratings

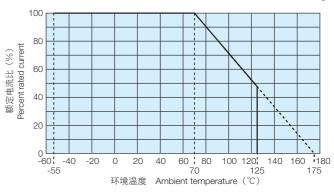
型 号 Type	表示 Marking	额定电流 Rated Current	熔断时间 Fusing Time	内部电阻值 Internal R. (mΩ)Max.	额定电压 Rated Voltage	额定环境温度 Rated Ambient Temp.	使用温度范围 Operating Temperature Range	编带和包装数/卷 Taping & Q'ty/Reel (pcs) TD
TF16AT0.25	С	0.25A	施加额定电流的200%的 电流时,在5秒钟以内。 参照熔断特性图。 Open within 5 s. at 200% rated current. Refer to the graph of fusing characteristics.	498	32V	+70°C	-55∼+125°C	5,000
TF16AT0.315	D	0.315A		384				
TF16AT0.50	F	0.50A		198				
TF16AT0.63		0.63A		143				
TF16AT0.80	K	0.80A		120				
TF16AT1.00	L	1.00A		94				
TF16AT1.25	М	1.25A		73				
TF16AT1.60	N	1.60A		59				
TF16AT2.00	S	2.00A		42				
TF16AT2.50	T	2.50A		32				
TF16AT3.15	U	3.15A		24				
TF16AT4.00	Χ	4.00A		17				
TF16AT5.00	Υ	5.00A		14				



## ■ 降低额定值 Derating

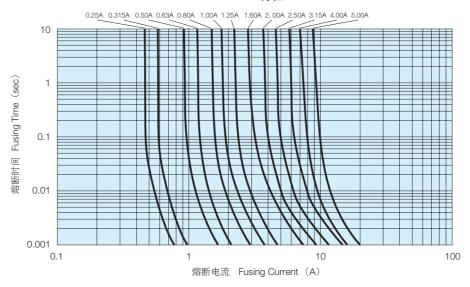
- ●稳恒电流
  - 稳恒电流在重复脉冲时,稳恒电流波形的峰值是恒稳电流值。
- 通常降低额定值
  - 本产品的通常降低额定值作为标准应在0.75以下。
- 降低温度
  - 在环境温度70℃以上使用时,需要校正温度,请参考右图的降低系数。
- Normal derating
  - Normal derating of this product should be 0.75max. as standards.
- Temperature Derating
  - Rated Current needs to be derated if used at an ambient temperature of  $70\,^{\circ}\text{C}$  or more. Refer to the derating coefficient on the right figure.
- Stationary current
  - Regard the peak of stationary current waveform as stationary current value when the stationary current is repeated pulse.

#### ■ 根据环境温度减轻额定电流 Rated Current Derating



# ■ 熔断特性 Fusing Characteristics (标准熔断时间 Average Fusing Time)

#### TF16AT I-T特性



# ■ 性能 Performance

试验项目 Test Items	标准值 Performance Requirements		试验方法	
rest items	保证值 Limit	代表值 Typical	Test Methods	
熔断特性 Fusing characteristics	5秒以内 Within 5s.	-	施加额定电流的200%的电流。 200% of rated current shall be carried.	
电极强度 Bending test	应当没有电极剥离、导通断线等异常。 No mechanical damages.	-	支持点间隔90mm,弯曲宽度3mm,一次。 Distance between holding points 90mm, bending width 3mm, 1time.	
耐焊接热 Resistance to soldering heat	10	5	260°C±5°C, 10s±0.5s	
焊接性 Solderability	95%以上为新的焊接覆盖。 95%coverage min.	-	245°C±3°C, 3s±0.5s	
通电寿命 Load life	10	5	70℃±2℃, 1000h, 额定电流×75%, 1.5小时ON/0.5小时OFF的周期。 Rated current×75%, 1.5h ON/0.5h OFF cycle	
耐湿通电寿命 Load life moisture	10	5	40℃±2℃, 90%~95%RH, 1000小时, 额定电流×75%, 1.5小时ON/0.5小时OFF的周期。 Rated current×75%, 1.5h ON/0.5h OFF cycle	
温度突变 Rapid change of temperature	10	5	-55°C (30min) /+125°C (30min) 10 cycles	
耐溶剂性 Resistance to solvent	外观应无消失等异常。 No evidence of damages to protective.	_	依据MIL-STD-202F Conforming to MIL-STD-202F	
残留电阻值 Residual resistance	10KΩ以上 10kΩ or more	-	熔断后的直流电阻值。 Measure DC resistance after fusing	

#### ■ 使用上的注意

- 为能有保险丝特性,本产品的构造是以特殊树脂保护熔丝。安装元件时,请调整喷嘴的下死点等,不要对产品施加过度应力。施加过度应力使产 品受损时,产品有可能会特性劣化、断线。
- 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。
- The substrate material of TF10BN applies ceramics to achieve good fusing characteristics. Please keep away from oxygen gas/liquid because such environment may deteriorate element strength and the performance by glass component corrosion.
- When you select fuse product, please make sure to confirm "Precautions for Use of Fusing Components" in this catalogue and ask KOA sales.

www.koaglobal.com