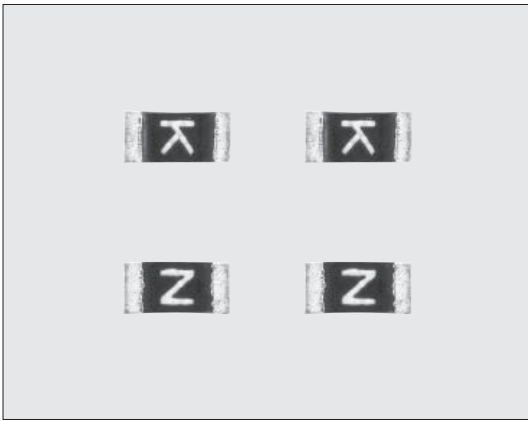


TF16VN 片式电流保险丝 (车载用) Chip Current Fuses (For Automotive)



外观颜色：黑色 Coating color：Black

特点 Features

- 尺寸小份量轻的二次回路用片状电流保险丝。
- 温度循环 (-55℃~+125℃) 1000个循环。
- 独特的构造和工艺，熔断特性很稳定。
- 适用于小型电子设备的回路过流保护。
- 对应回流焊。
- 符合欧盟RoHS。
- Small and light chip current fuses for the secondary circuit.
- Temperature cycle (-55℃~+125℃), 1000cycle.
- Original construction and manufacturing method stabilize fusing characteristics.
- Suitable for overcurrent protection of circuit block in small electronic devices.
- Suitable for reflow solderings.
- Products meet EU-RoHS requirements.

用途 Applications

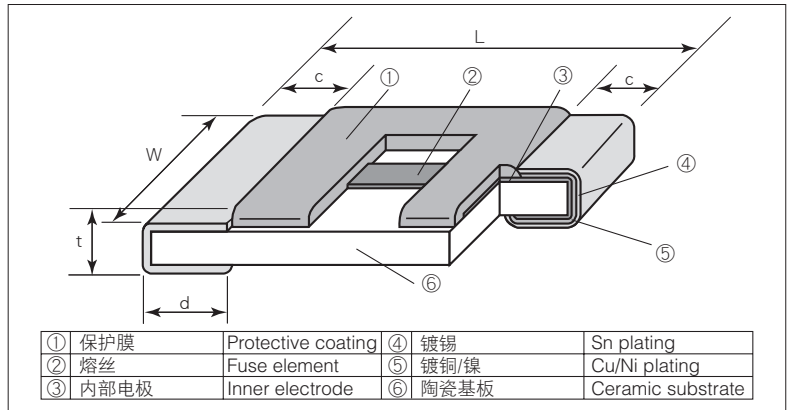
- 车载用电子设备的过流保护
- Protection from overcurrent to electronic device for automotive.

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)
开发中 TF16VN0.80	K	0.80A	施加额定电流的250%的电流时，在5秒钟以内。参照熔断特性图。 Open within 5 s. at 250% rated current. Refer to the graph of fusing characteristics.	200	32V	+70℃	-55~+125℃	5,000
开发中 TF16VN1.00	L	1.00A		160				
开发中 TF16VN1.25	M	1.25A		130				
开发中 TF16VN1.60	N	1.60A		100				
开发中 TF16VN2.00	S	2.00A		80				
开发中 TF16VN2.50	T	2.50A		60				
开发中 TF16VN3.15	U	3.15A		40				

开发中 = Under development

结构图 Construction



外形尺寸 Dimensions

型号 Type (Inch Size Code)	尺寸 Dimensions (mm)					Weight (g) (1000pcs)
	L	W	c	d	t	
TF16VN (0603)	1.6±0.1	0.8±0.1	0.35±0.1	0.3±0.1	0.45±0.1	2.15

品名构成 Type Designation

实例 Example

TF	16V	N	2.50	T	TD
品种 Product Code	尺寸 Size	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
	16V: 1.6x0.8mm	N:普通熔断 N:Normal blow		T: Sn	TD:4mm pitch punch Paper BK: Bulk

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.

■ 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。

● 降低温度

在环境温度70℃以上使用时，需要校正温度，应考虑右图的降低系数。

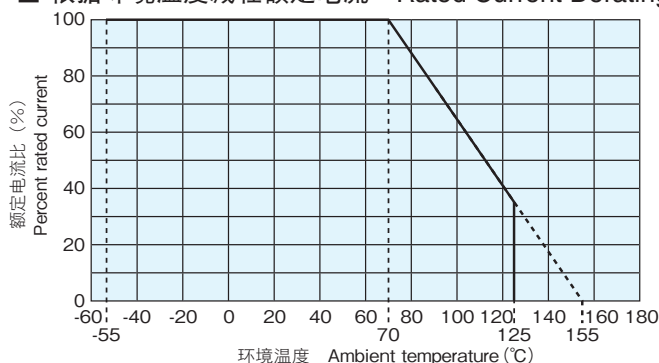
● Stationary current

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

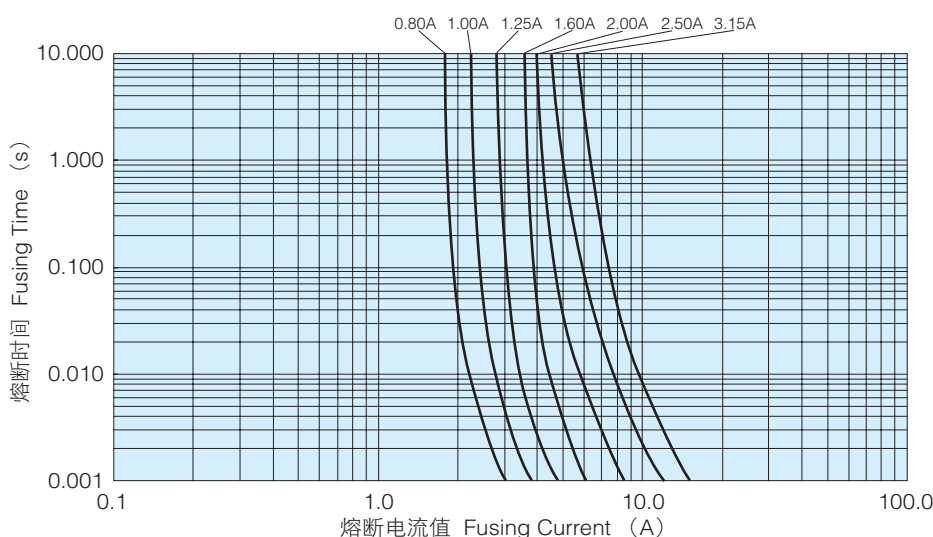
● Temperature Derating

Rated current needs to be derated if used at an ambient temperature of 70℃ or more. Refer to the derating coefficient on the right figure.

■ 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)



■ 性能 Performance

试验项目 Test Items	标准值 Performance Requirements $\Delta R \pm \%$		试验方法 Test Methods
	保证值 Limit	代表值 Typical	
熔断特性 Fusing characteristics	5秒以内。 Within 5s.	-	施加额定电流的250%的电流。 250% 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2mm，一次。 Distance between holding points 90mm, bending width 2mm, 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°C ± 2°C, 1000h, 额定电流 × 100%, 1.5小时ON/0.5小时OFF的周期。 Rated current × 100%, 1.5h ON/0.5h OFF cycle
耐湿通电寿命 Load life moisture	10	5	85°C ± 2°C, 85% ± 5%RH, 1000h, 额定电流 × 10%, 1.5小时ON/0.5小时OFF的周期。 Rated current × 10%, 1.5h ON/0.5h OFF cycle
温度突变 Rapid change of temperature	10	5	-55°C (30min) / +125°C (30min) 1000 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