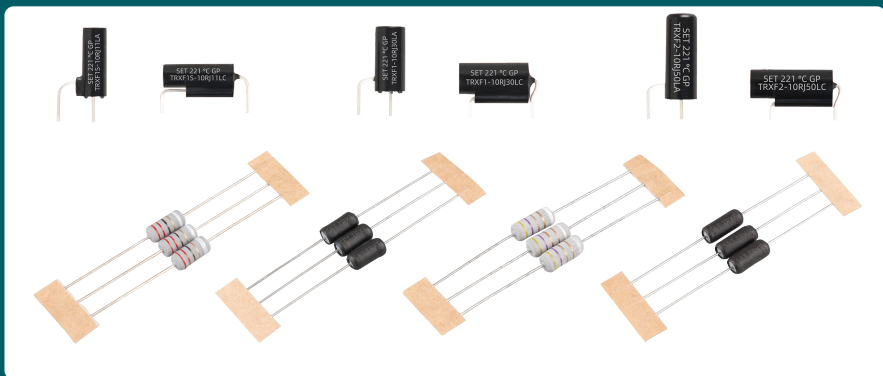


TRXF

热保护型熔断电阻器

Thermal-Link & Fusing Resistor

- 专利产品 Patented Product
- 过温保护功能 Over Temp. Protection
- 抗浪涌 Surge Protection
- 开机浪涌保护 Inrush Current Protection
- 小故障电流保护功能 Small Fault Current Protection
- 短路保护 Short Circuit Protection



应用 Applications

故障类型
Fault Type

过温
Over Temp.

浪涌
Surge

开机浪涌
Inrush Current

过载
Overload

短路
Short Circuit

解决方案
Solution



热保护型熔断电阻器 (TRXF)
Thermal-Link & Fusing Resistor (TRXF)

制造电路控制及安全保护元器件 提供电路安全解决方案
Providing a Total Solution for High Standard Safety Circuit Protection

SETsafe | SETfuse
赛尔特

WHAT

CAN DO FOR YOU

赛尔特设计、制造、销售业界领先的**电路控制及安全保护元器件**、提供**电路安全解决方案**。

2000年成立于中国厦门。产品销往40多个国家和地区，与世界500强的部分企业有深远的合作，首创、独创多个产品；取得CCC、UL、cUL、VDE、TUV、PSE、KC等认证，符合RoHS、REACH，获得IATF16949、ISO9001、ISO14001、ISO45001、GB/T29490管理体系认证，参与多项电路保护元器件的国家、国际标准制定、修订。

赛尔特(SETsafe | SETfuse)产品的主要应用市场：通信、防雷器、电源、新能源、照明、家电、移动设备、医疗。

MISSION

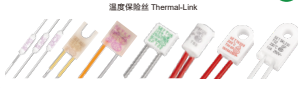
PROVIDING A TOTAL SOLUTION FOR HIGH STANDARD SAFETY CIRCUIT PROTECTION.

SETsafe | SETfuse was established in 2000 in Xiamen, China. We have a presence in more than 40 countries and regions recognising our products. Some of the world's 500 fortune companies are our valuable customers. We have pioneered, innovated & developed several products exclusively. Products are compliance with CCC, UL, cUL, VDE, TUV, PSE, KC, IATF16949, ISO9001, ISO14001, ISO45001, GB/T29490 certificates. We are in one of the core participating teams for revising and setting several national & international standards in the field of Circuit Protection.


SETsafe | SETfuse Key Markets: Telecom, Surge Protector, Power, New Energy, Lighting, Home Appliances, Mobile Devices, Medical.

过温保护 Over Temperature Protection


ATCO
温度保险丝 Thermal-Link 1



DC-ATCO
直流温度保险丝 Thermal-Link 2



OTCO
温度保险丝 Thermal-Link 3

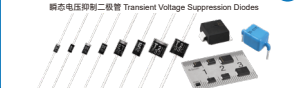


TMS
热保护器 Thermal Protector 4




过电压保护 Over Voltage Protection


TVS Diodes
瞬态电压抑制二极管 Transient Voltage Suppression Diodes 1




GDT
气体放电管 Gas Discharge Tube 2




MOV
压敏电阻 Metal Oxide Varistor 3



TFMOV
热保护型压敏电阻 Thermal Fuse & MOV 4



TFMOV
热保护型压敏电阻 Thermally Protected Varistors 5




过电压保护 Over Voltage Protection

SPD-M
电涌保护模块 Surge Protective Device Module 6




SPD
低压电源系统 Low-voltage Power Systems 7



SPD
光伏供电系统 PV System 8



SPD
室外照明系统 Outdoor Lighting 9



SPD
信号通信系统 Signaling Networks 10



过电流保护 Over Current Protection

Mini Fuses
小型熔断器 Miniature Fuses 1



TRXF
热保护型熔断电阻器 Thermal-Link & Fusing Resistor 2



TPR
热保护型熔断电阻器 Thermally Protected Resistor 3



NTC
抑制浪涌电流NTC热敏电阻器 Inrush Current Limiting NTC Thermistor 4



LV Fuses
低压熔断器 Low Voltage Fuses 5



主动保护 Active Protection

iTCO
受控熔断器 Iode Thermal-Link 1



热保护型熔断电阻器 (TRXF)

Thermal-link & Fusing Resistor (TRXF)

TRXF功能 = 电流保险丝(80%) + 温度保险丝(20%) + 雷击浪涌保护+开机浪涌保护

≈ 传统方案 ((MOV + TCO) + Fuse + NTC) + 热态时的浪涌防护

TRXF Function = Current Fuse(80%) + Thermal-link(20%) + Surge protection + Inrush current protection

≈ Present conventional solution ((MOV + TCO) + Fuse + NTC) + Surge suppression in the hot state

赛尔特公司独创的热保护型熔断电阻器(TRXF)是一种同时具有过温过流保护功能的功率型电阻器。该产品是将温度保险丝(TCO)内置于线绕熔断电阻器(RXF)之中, 并形成串联连接。该产品不仅具有与普通线绕熔断电阻器相同的小尺寸和大故障电流保护功能, 还可有效解决普通线绕熔断电阻器在小故障电流下所产生异常持续高温的安全隐患。

SETsafe | SETfuse's Thermal-link & Fusing Resistor (TRXF) is a unique type of Power Resistor, with Over Temp. and Over Current Protections. The Thermal-link (TCO) is placed through the core of Fusible Wirewound Resistor (RXF) and in series with RXF. TRXF has the same physical size as ordinary RXF as well as large fault current protection. Besides, TRXF can effectively solve the hidden danger of continuous abnormal heat that ordinary RXF may cause when small fault current happens.

产品图 Product Photos

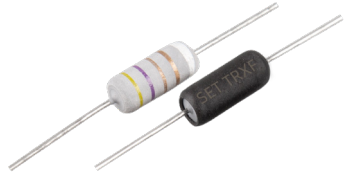
立式 Vertical



卧式 Horizontal



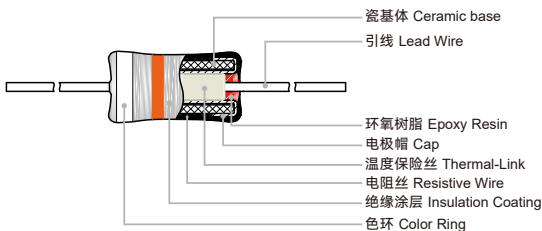
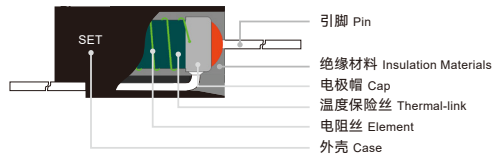
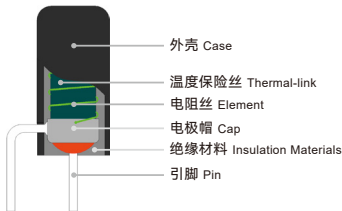
轴向 Axial



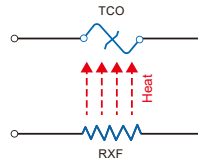
Patents No. : ZL201020697438.7 , ZL201621245825.0 , US 9240300

File No. : UL / CUL: E324712 , TUV: R 50279979 , CQC: 15001126561/2/3 ; 18001205501/2

结构图 Structure Diagrams



工作原理 Operating Principle



产品概览 Overview

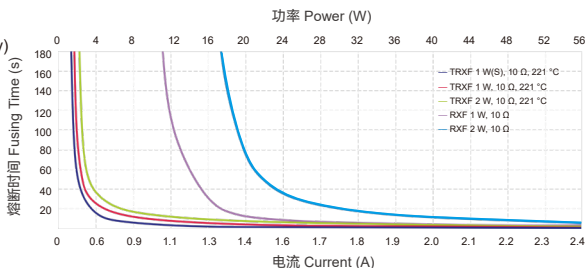
产品型号 Part Number	尺寸 (mm)* Dimensions	额定功率 (W) Rated Power	阻值(Ω) Resistance Range	额定动作温度(°C) Rated Functioning Temp.
TRXF1S-xxxxxxLx	Φ3.6 × 11.0	1	1~600	221
TRXF1-xxxxxxLx	Φ4.8 × 11.0	1	0.27~800	145 / 221
TRXF2-xxxxxxLx	Φ4.8 × 13.5	2	0.27~1000	150 / 221
TRXF1-xxxxxxTD	Φ4.5 × 8.5	1	0.47~800	221
TRXF2-xxxxxxTD	Φ4.5 × 10.0	2	0.47~1000	221

*：引脚成型方式及尺寸可根据客户需求定制 The forming modes and length of lead wires can be customized

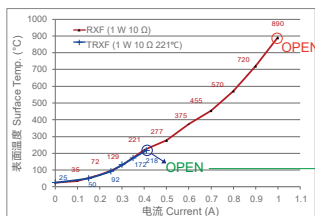
电流时间曲线 Fusing Time Curve

TRXF&RXF的熔断时间曲线比较 (仅供参考)

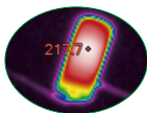
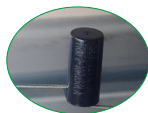
TRXF&RXF Fusing Time Curve (For Reference Only)



表面温度 Surface Temp. : RXF VS. TRXF (2 pins)



着火隐患
Fire Risk



安全
Safe



应用 Applications

保护元器件 Protective Component	短路保护 Short Circuit Protection	小故障电流保护 Small Fault Current Protection	浪涌防护 Surge Protection	开机浪涌保护 Inrush Current Protection
Fuse	一般 Common 抗爆性 Anti-explosion Capacity (264 Vac)	好 Good	差 Poor	一般 Common
NTC+Fuse		无着火隐患 Without Fire Risk	一般 Common	热态 Hot state: 一般 Common 冷态 Cold state: 好 Good
Fusible Wirewound Resistor (RXF)		差 Poor 着火隐患 With Hidden Fire Risk	好 Good ≥2 kV	好 Good
TRXF	优异 Excellent 抗爆性 Anti-explosion Capacity (264 Vac)	优异 Excellent 无着火隐患 Without Fire Risk	好 Good ≥2 kV	好 Good



电源适配器 / 开关电源 / LED灯 / 智能家居 / 安防

Power Adapter / Switched-Mode Power Supply (SMPS) / Smart Home Appliances / Security and Protection

www.SETsafe.com
www.SETfuse.com

20+

OVER 20 YEARS OF DESIGNING, MANUFACTURING
AND SELLING OF CIRCUIT PROTECTION COMPONENTS
超过20年的设计、制造、销售电路保护元器件

40+

SOLD TO MORE THAN 40 COUNTRIES AND REGIONS
40多个国家和地区的客户选择赛尔特品牌

自动化

AUTOMATIC PROCESS PRODUCTION
自动化工序生产

500

A BRAND CHOSEN BY FORTUNE 500 COMPANIES
世界500强企业选择品牌



厦门火炬高新区（翔安）产业区翔安西路8067, 8001号
NO. 8067, 8001 West Xiang'an Road, Torch High-Tech
Industrial District, Xiang'an 361101 Xiamen P.R. China
www.SETsafe.com www.SETfuse.com
+86 592-5715-838 sales@SETfuse.com

厦门赛尔特电子有限公司版权所有
All Rights Reserved by Xiamen SET Electronics Co., Ltd.
更新 Update: Jun 2, 2022

SET safe | *SET fuse*
赛尔特