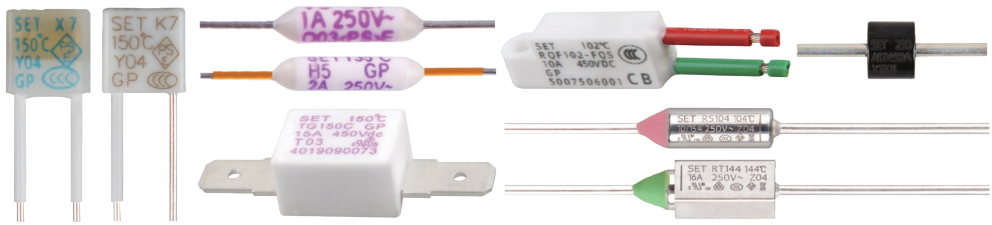
PROVIDING TOTAL SOLUTION FOR HIGH STANDARD SAFETY CIRCUIT PROTECTION

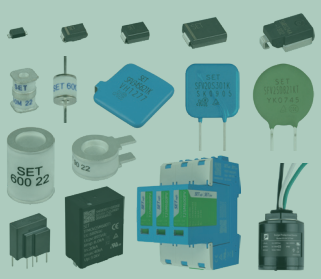
Our Customers Include Many Fortune Global 500 Companies.

Over Temperature Protection

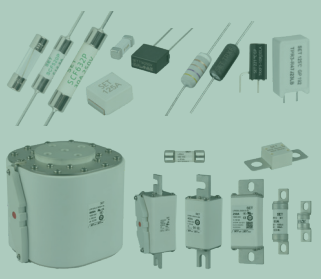
https://setsafe.com/Products/Over-Temperature-Protection.html



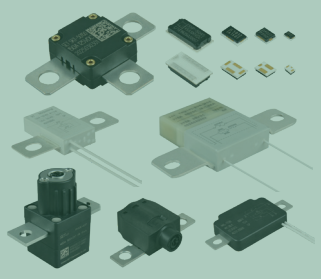
Over Voltage Protection



Over Current Protection



Active Protection



2026 Product Catalog

SET safe | SET fuse

About SETsafe | SETfuse

www.SETsafe.com, www.SETfuse.com

MISSION

① Design, Manufacture and Sell Circuit Control and Safety Protection Components.
② Provide Circuit Safety Solutions.

Key Markets:
New Energy, Energy Storage, Telecommunications, Surge Protector, Power, Lighting, Home Appliances, Mobile Devices, Medical, etc.

SETsafe | SETfuse was established in 2000 in Xiamen, China. We have a presence in more than 40 countries. Some of the world's 500 fortune companies are our valuable customers. We have pioneered, innovated and developed several products exclusively. Products are complied with CB, CCC, CQC, TLC, UL, cUL, ETL, TÜV, CE, VDE, DEKRA, KEMA-KEUR, KC, PSE, IATF 16949, ISO 9001, ISO 14001, ISO 45001, ISO 50001, GB/T 29490 certificates, meeting RoHS and REACH requirements. We are in one of the core participating teams for revising and setting several national & international standards in the field of Circuit Protection.

Learn more: https://setsafe.com/About-SETsafe-and-SETfuse/About-Us.html

SETsafe | SETfuse Industrial Park

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What Can We Do For You ① ②

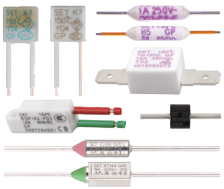
www.SETsafe.com, www.SETfuse.com

① Design, Manufacture and Sell Circuit Control and Safety Protection Components

Over Temperature Protection, Over Voltage Protection, Over Current Protection, Active Protection circuit control and safety protection components by 2026.

https://setsafe.com/products.html

Over Temperature Protection



- Thermal-Link - Alloy Type
- Direct Current Thermal-Link - Alloy Type
- Thermal-Link - Organic Type
- Thermal Turn On - Organic Type

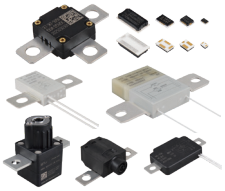
Over Voltage Protection

- Transient Voltage Suppression Diodes
- Thermal Protected Transient Suppression Diode
- ESD TVS Diode Arrays
- Thyristor Surge Suppressor
- Gas Discharge Tube
- Thermally Protected Gas Discharge Tube
- Metal Oxide Varistor & MOV Disk
- Thermal Fuse & MOV
- Surge Protective Devices Module
- Surge Protective Device

Over Current Protection

- Cartridge Fuse-links
- Sub-miniature Fuse-links
- Surface Mount Fuse-links
- Fusible Wire Wound Resistor
- Thermal-Link & Fusing Resistor
- Thermally Protected Resistor
- Low Voltage Fuses

Active Protection

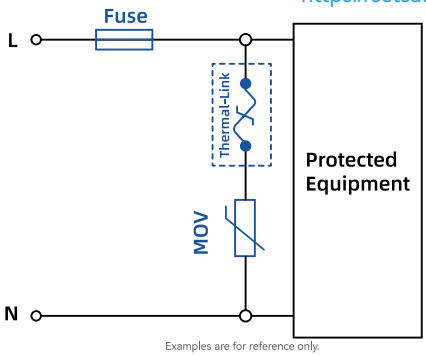


- Heat CutOff
- idea Thermal CutOff
- Pyro CutOff
- Mechanical CutOff

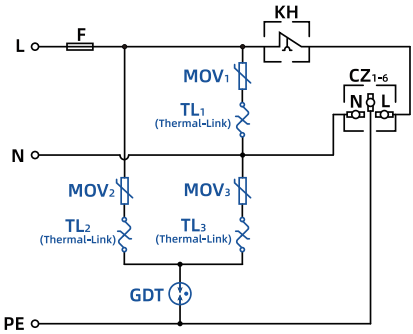
② Provide Circuit Safety Solutions

Typical applications of SETsafe | SETfuse products such as Current Fuse, Thermal-Link, Metal Oxide Varistor (MOV) and Gas Discharge Tube (GDT) circuits (for reference only).

https://setsafe.com/markets.html



Examples are for reference only.



Examples are for reference only.

Different electrical equipments have different circuit protection solutions. If you need further information, please contact us.

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Solution For Your Specific Application

Deliver Professional Solutions to Ensure Optimal Performance for Your Product Applications

SETsafe | SETfuse's Comprehensive Product Solutions

- Over Temperature Protection
- Over Voltage Protection
- Over Current Protection
- Active Protection

For more product application solutions, please visit the SETsafe | SETfuse Official Website.

https://setsafe.com/markets.html

Continuously expanding, please check our website regularly for updates.

Industrial Applications

New Energy

Data Centers

Industrial Power Supplies

Road Infrastructure

Smart Grid

Telecommunications Equipment

Robotics

Elevators

Marine & Shipbuilding

Hydropower

Irrigation Equipment

Smart Greenhouses

Rail Transit

Aerospace

Battery Modules

Lightning Protection

Lightning Protection Engineering

……

Consumer Applications

Residential Energy Storage

Electric Vehicles

Consumer Power Supplies

Environmental & Sanitary Appliances

Healthcare Appliances

Personal Digital Products

Major Appliances

Small Appliances

Kitchen Appliances

Domestic Robotics

Power Tools

Lighting

Office Equipment

Batteries

Children's Toys

Lightning Protection

……

For more product application solutions, please contact SETsafe | SETfuse: sales@SETfuse.com

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Make Global Electricity Safe
SETsafe | SETfuse is Your First Choice

Establishment and Customer

https://setsafe.com/About-SETsafe-and-SETfuse/About-Us.html

2000
Establishment in 2000 year,
it focuses on the design, manufacture and sell of circuit control and safety protection components, and provides circuit safety solutions.

40+
The products sell well in more than 40 countries.

Efficient Intelligent Manufacturing
Products are manufactured fully automatically with automated processes and data is traceable.

500
Our customers include many Fortune Global 500 companies.

Global Business Mode

Direct Sales

Distribution
Distributor and Agency.

REP

- We can jointly develop customers, and customers can specify the method of cooperation.
- More details, please contact SETsafe | SETfuse: sales@SETfuse.com

Approved Management System

https://setsafe.com/Management-System.html

IATF 16949
Certification by TÜV Rheinland, Germany.

ISO 9001
Certification by TÜV Rheinland, Germany.

ISO 14001
Environmental Management System.

ISO 45001
Occupational Health and Safety Management System.

ISO 50001
Energy Management System.

GB/T 29490
Intellectual Property System.

The actual certificate prevails.

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Make Global Electricity Use Safe
SETsafe | SETfuse is Your First Choice

Testing and Verification Laboratory

https://setsafe.com/Testing-and-Verification-Laboratory.html

ISO

The laboratory is built in accordance with ISO/IEC 17025.

3000+

The laboratory area is over 3,000 square meters.

300+

More than 300 sets of specialized testing equipment.

1000+

More than 1000 testing items.

Standards

Has the testing capabilities of IEC international standards, ITU standards, European standards, UL standards, and national and industry standards.

WTDP

The laboratory has obtained the qualification of UL under Witnessed Test Data Program (WTDP) and the accreditation qualification by TÜV Rheinland SETsafe | SETfuse have nine types of products that can be witnessed tested.

CTF

CUSTOMERS TESTING FACILITIES (CTF)

CTF laboratory qualification approved by TÜV Rheinland.
CTF laboratory standards: IEC61643-11, IEC61643-31.
Products: SPD for Low-voltage Power Systems,
SPD for Low-voltage DC Systems (PV, ESS).

Function and Performance Testing Laboratory

It has more than ten functional and performance testing laboratories, including but not limited to lightning surge laboratory, electrical testing laboratory, temperature testing laboratory, material testing laboratory, environmental testing laboratory, thermal analysis laboratory, durability testing laboratory, mechanical testing laboratory, product application testing laboratory, etc.

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Make Global Electricity Use Safe
SETsafe | SETfuse is Your First Choice

Quality First, Select with Confidence

APQP
Advanced Product Quality Planning.

FMEA
Failure Mode and Effects Analysis.

MSA
Measurement Systems Analysis.

SPC
Statistical Process Control.

PPAP
Production Part Approval Process.

Suppliers
Choose High-quality Suppliers.

Design
Quality Assurance for Product Design.

IQC
Quality Assurance for Incoming Material Inspection.

IPQC
Quality Assurance for In-process Control.

FQC
Quality Assurance for Finished Product Inspection.

OQC
Quality Assurance for Shipment Inspection.

CCD
Online Inspection, Appearance, and Size.

Reliability
Performance Testing, Reliability Testing.

Life Testing
Life Testing and Calculation.

Data Tracking
It's able to trace product Production Time, Raw Materials, Equipment and so on.

Calibration
Calibrate Related Testing Equipment and Instruments.

Safety Certification
The Product has Corresponding Safety Certification.

Quality Tools, Management
QCC, Six Sigma, TQM

- From development and design, supplier selection to production and manufacturing, SETsafe | SETfuse products follow the principle of the most competitive quality, including but not limited to the use of the above quality tools and test items, which are subject to the actual situation of each product.
- # Each product is different, please refer to the actual situation.

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Make Global Electricity Use Safe
SETsafe I SETfuse is Your First Choice

Digitalization and Greening

Digital Management Enterprise

Since 2006, we have combined system requirements with management practices to create a digital management system and digital team with SETsafe I SETfuse characteristics. It fully covers the entire product life cycle and daily collaborative office, providing strong support for business decision-making and quality management. We have obtained the third-level digital level certification and the title of the National Excellent Digital Intelligence Team.

Customer First, Attentive Service

Worry-Free Before, During and After Sales, Buy and Use With Confidence

Optional Logistics, Free Technical Consultation, FAE, Quality Assurance.

Reduce Pollution and Protect the Earth

HSF
Non harmful substances.

RoHS
Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

REACH
Regulations concerning the Registration, Evaluation, Authorization and Restriction of Chemicals.

Halogen Free

Non Red Phosphorus

PFAS
Not intentionally added.
Per- and polyfluoroalkyl substances.

SETsafe I SETfuse's products comply with relevant environmental regulations and the limits of hazardous substances. Each product is different, please refer to the actual situation.

Carbon Peak and Carbon Neutrality

700
Reduce carbon dioxide emissions by about 700 tons per year.

800
Total solar installed capacity is 800 KWP.

100
The average solar power generation is about 100 kWh / year.

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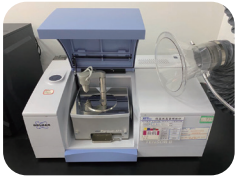
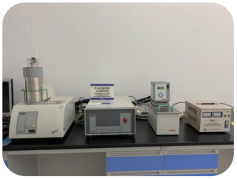
Some Test Equipment

https://setsafe.com/Testing-and-Verification-Laboratory/Function-Performance-Testing-Lab.html





The testing focus of the laboratory covers material analysis class, temperature test class, environmental test class, electrical test class, lightning current test class, with more than 1000 testing items.

The laboratory has the testing capabilities of IEC international standards, EN European standards, UL standards, and national and industry standards.

Test items include Marking test, Tensile test, Thrust test, Creepage distances and clearances, Dielectric strength, Insulation resistance, Holding temperature, Functioning temperature, Maximum temperature limit, Ageing, Varistor voltage, Leakage current, Voltage proof.....

Witnessed Test Data Program (WTDP)

https://setsafe.com/Testing-and-Verification-Laboratory/Witnessed-Test-Data-Program-WTDP.html

SETsafe | SETfuse Obtained Permanent Authorization:

- UL 60691,CSA C22.2 NO.60691:19.
- UL 1449, EDITION 5, ISSUE DATE 01/08/2021 (Surge Protective Devices).
- UL 1434, EDTION 1, REVISION DATE 05/18/2020 (THERMISTOR-TYPE DEVICES).
- CSA Component Acceptance Service, T.I.L, Class No.9073-31, ISSUE DATE 07/09/1991.
- CSA C22.2 No.269.5, EDITION 2, ISSUE, DATE 09/2017 (Surge Protective Devices – Type 5 - Components).
- CSA C22.2 No.269.4, EDITION 2, ISSUE, DATE 03/2017 (Surge Protective Devices – Type 4 - Component Assemblies).

SETsafe | SETfuse Obtained Permanent Authorization:

- IEC 60127.
- IEC 60539-1:2016.
- IEC 60691:2015+A1.
- EN 60691:2016+A1.
- IEC 61051-1:2018.
- EN IEC 61051-1:2018.
- IEC 61051-2:1991+A1.
- IEC 61051-2-2:1991.
- IEC 62368-1:2020 Annex G.8.
- EN IEC 62368-1:2020 Annex G.8.
- EN 50539-11:2013+A1.
- IEC 61643-11:2011.
- EN 61643-11:2012+A11.
- IEC 61643-21:2012.
- EN 61643-21:2001+A1+A2.
- IEC 61643-31:2018.
- EN 61643-31:2018.
- IEC61643-311.

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Contents

Over Temperature Protection 01

1 Thermal-Link (ATCO) - Alloy Type 03
2 Direct Current Thermal-Link (DC-ATCO) - Alloy Type 11
3 Thermal-Link (OTCO) - Organic Type 19
4 Thermal Turn On (TTO) - Organic Type 22

Over Voltage Protection 23

1 Transient Voltage Suppression Diodes (TVS Diodes) 26
1.1 TVS Diodes - Standard Type 27
1.2 TVS Diodes - Automotive Grade 34
2 Thermal Protected Transient Suppression Diode (TTVS) 38
3 ESD TVS Diode Arrays (ESD TVS) 40
4 Thyristor Surge Suppressors (TSS) 47
5 Gas Discharge Tube (GDT) 50
5.1 GDT - SMD Type 51
5.2 GDT - DIP Type 54
5.3 GDT - High Surge Type 56
6 Thermally Protected Gas Discharge Tube (TGDT) 59
7 Metal Oxide Varistor & MOV Disk 60
7.1 Metal Oxide Varistor & MOV Disk - Standard Type 61
7.2 Metal Oxide Varistor - High Surge Type 66
7.3 MOV Disk - Lightning Protection Type For T1 67
7.4 MOV Disk - Lightning Protection Type For T2 68
8 Thermal Fuse & MOV (TFMOV) 69
8.1 Thermal Fuse Varistor (TFV) 70
8.2 Thermal Fuse & MOV (TFMOV) 72
8.3 Thermally Protected Varistors (TFMOV) 76
9 Surge Protective Devices Module (SPD-M) 79
10 Surge Protective Device (SPD) 82
10.1 SPD for Low-voltage Power Systems 83
10.2 SPD for Low-voltage DC Systems (PV, ESS) 93
10.3 SPD for Outdoor Lighting 97

Over Current Protection 102

1 Miniature Fuses 104
1.1 Cartridge Fuse-links (CFL) 105
1.2 Sub-miniature Fuse-links (SFL) 108
1.3 Surface Mount Fuse-links (SMFL) 110
1.4 Fusible Wirewound Resistor (RXF) 112

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Contents

1.5 Thermal-Link & Fusing Resistor (TRXF) 114
1.6 Thermally Protected Resistor (TPR) 116
2 Low Voltage Fuses (LV Fuses) 118
2.1 LV Fuses for ESS (Energy Storage System) 119
2.2 LV Fuses for EV Charging 123
2.3 LV Fuses for PV 126
2.4 LV Fuses for Surge Protector 127
2.5 LV Fuses - Fuse Holder 129

Active Protection 131
1 Heat CutOff (HCO) 132
2 idea Thermal CutOff (iTCO) 134
3 Pyro CutOff (PCO) 137
4 Mechanical CutOff (MCO) 139

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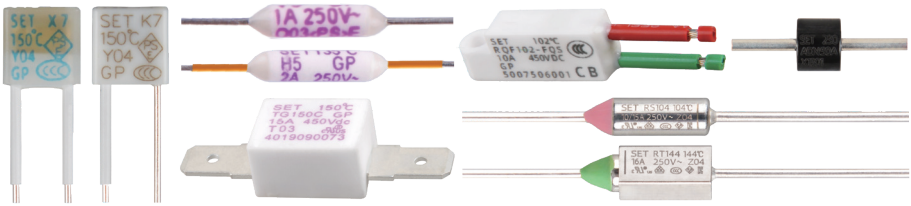
Over Temperature Protection



SETsafe | SETfuse Products

1. Thermal-Link (ATCO)-Alloy Type
2. Direct Current Thermal-Link (DC-ATCO)-Alloy Type
3. Thermal-Link (OTCO)-Organic Type
4. Thermal Turn On (TTO)-Organic Type

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Glossary

T_f	Rated Functioning Temp.
I_r	Rated Current
U_r	Rated Voltage

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Abnormal Temperature of Electrical Equipment

Abnormal temperature caused by fault or abnormal operation in electrical equipment or circuit.

Applications

Communication, Home Appliances, Electronic Components on PCB, Electric Vehicle, Industrial Control and Automation, Automobile, Lighting, etc.

SETsafe | SETfuse Solution

Normally, Fusible Alloy is jointed to the two lead wires. Under abnormal conditions, when the temperature reaches to the fusing temperature of Alloy Thermal Cutoff (ATCO), the Fusible Alloy melts and quickly retracts to the two lead wire ends with the aid of the Flux Resin and disconnects the circuit completely. Using ATCO to solve the problem of abnormal temperature caused by fault or abnormal working in electrical equipment or circuit, in order to avoid fire.

1 Thermal-Link (ATCO) Alloy Type

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type.html

T_f : 76 ~ 230 °C

I_r : 1 ~ 200 A

U_r : 125 ~ 800 VAC, 32 ~ 200 VDC

More than 500 models

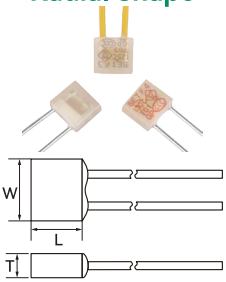
RoHS REACH

Product Model Selection Matrix

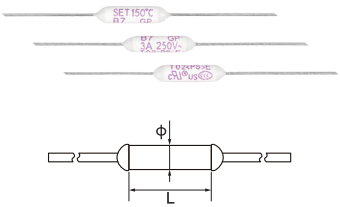
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type.html?id=10

Shape

A Radial Shape



B Axial Shape



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Thermal-Link (ATCO)
Alloy Type

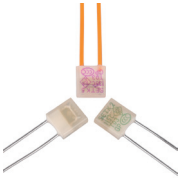
A
Radial Shape

Learn more

F series

T_f : 76 ~ 160 ℃
I_r : 1 A / 250 VAC, 3 A / 60 VDC
U_r : 250 VAC, 60 VDC
Body Dimensions: L=4.2 mm, W=5.1 mm, T=2.3 mm
Applications: Motor, Transformer, Lighting, Diffuser, Home Appliances, Electric Blanket, Switching Power Supply

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/F-series.html



Learn more

K series

T_f : 76 ~ 221 ℃
I_r : 2 A / 250 VAC, 4 A / 60 VDC
U_r : 250 VAC, 60 VDC
Body Dimensions: L=5.8 mm, W=5.8 mm, T=2.3 mm
Applications: Motor, Transformer, Lighting, Diffuser, Switching Power Supply, Home Appliances, Battery, Electric Blanket, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/K-series.html

Learn more

KG series

T_f : 76 ~ 221 ℃
I_r : 2 A
U_r : 250 VAC, 60 VDC
Body Dimensions: L=10.0 mm, L_1=5.8 mm, W=5.8 mm, T=2.3 mm
Applications: Lighting, Switching Power Supply, Home Appliances, Battery, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/KG-series.html

Learn more

X series

T_f : 76 ~ 221 ℃
I_r : 3 A / 250 VAC, 4 A / 60 VDC
U_r : 250 VAC, 60 VDC
Body Dimensions: L=5.8 mm, W=5.8 mm, T=2.3 mm
Applications: Motor, Transformer, Lighting, Diffuser, Switching Power Supply, Home Appliances, Battery, Electric Blanket, Automotive Electronics

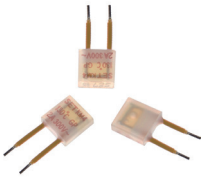
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/X-series.html

Learn more

XG series

T_f : 76 ~ 221 ℃
I_r : 3 A
U_r : 250 VAC, 60 VDC
Body Dimensions: L=10.0 mm, L_1=5.8 mm, W=5.8 mm, T=2.3 mm
Applications: Lighting, Switching Power Supply, Home Appliances, Battery, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/XG-series.html



Learn more

KM series

T_f : 125 ~ 150 ℃
I_r : 2 A
U_r : 300 / 320 VAC
Body Dimensions: L=5.8 mm, W=5.8 mm, T=2.3 mm
Applications: Motor, Transformer, Lighting, Diffuser, Switching Power Supply, Home Appliances, Battery, Electric Blanket, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/KM-series.html

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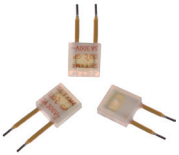
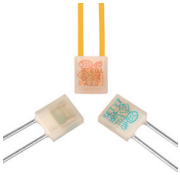
Thermal-Link (ATCO)
Alloy Type

A
Radial Shape



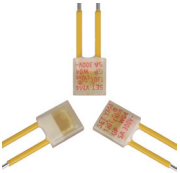
Learn more

XM series
T_f : 125 ~ 150 ℃
I_r : 3 A
U_r : 300 / 320 VAC
Body Dimensions: L=5.8 mm, W=5.8 mm, T=2.3 mm
Applications: Motor, Transformer, Lighting, Diffuser, Switching Power Supply, Home Appliances, Battery, Electric Blanket, Automotive Electronics
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/XM-series.html



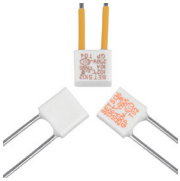
Learn more

Y series
T_f : 76 ~ 187 ℃
I_r : 5 A
U_r : 250 / 300 VAC
Body Dimensions: L=7.0 mm, W=6.6 mm, T=2.7 mm
Applications: Motor, Lighting, Home Appliances, Switching Power Supply, Power Strips
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/Y-series.html



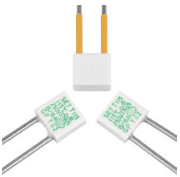
Learn more

YM series
T_f : 130 ~ 150 ℃
I_r : 5 A
U_r : 300 / 500 / 690 VAC
Body Dimensions: L=7.0 mm, W=6.6 mm, T=2.7 mm
Applications: Motor, Lighting, Home Appliances, Switching Power Supply, Power Strips
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/YM-series.html



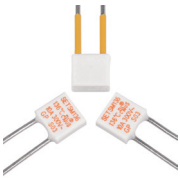
Learn more

S series
T_f : 102 ~ 150 ℃
I_r : 10 A
U_r : 125 / 250 VAC, 100 VDC
Body Dimensions: L=7.5 mm, W=8.3 mm, T=3.4 mm
Applications: Motor, Lighting, Home Appliances, Switching Power Supply, Power Strips, Surge Protection Device
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/S-series.html



Learn more

T series
T_f : 102 ~ 221 ℃
I_r : 15 / 16 A
U_r : 125 / 250 VAC, 100 VDC
Body Dimensions: L=7.5 mm, W=8.3 mm, T=3.4 mm
Applications: Motor, Lighting, Home Appliances, Switching Power Supply, Power Strips, Surge Protection Device
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/T-series.html

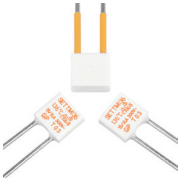


Learn more

SM series
T_f : 102 ~ 150 ℃
I_r : 10 A
U_r : 300 VAC
Body Dimensions: L=7.5 mm, W=8.3 mm, T=3.4 mm
Applications: Motor, Lighting, Home Appliances, Switching Power Supply, Power Strips, Surge Protection Device
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SM-series.html

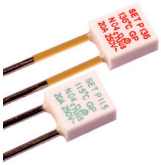
Thermal-Link (ATCO)
Alloy Type

A
Radial Shape



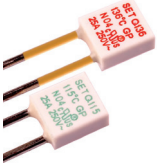
Learn more

TM series
T_f : 102 ~ 150 ℃
I_r : 15 / 16 A
U_r : 300 VAC
Body Dimensions: L=7.5 mm, W=8.3 mm, T=3.4 mm
Applications: Motor, Lighting, Home Appliances,
Switching Power Supply, Power Strips,
Surge Protection Device
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/TM-series.html



Learn more

P series
T_f : 102 ~ 221 ℃
I_r : 20 A
U_r : 250 / 300 / 400 VAC, 120 VDC
Body Dimensions: L=11.5 mm, W=10.8 mm, T=4.8 mm
Applications: Switching Power Supply, Power Strips,
Home Appliances,
Surge Protection Device
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/P-series.html



Learn more

Q series
T_f : 102 ~ 136 ℃
I_r : 25 A
U_r : 250 /300 /400 VAC, 120 VDC
Body Dimensions: L=11.5 mm, W=10.8 mm, T=4.8 mm
Applications: Switching Power Supply / Power Strips,
Home Appliances,
Surge Protection Device
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/Q-series.html

Learn more

SK series
T_f : 102 ~ 221 ℃
I_r : 10 A
U_r : 250 VAC
Body Dimensions: L=17.0 mm, W=11.0 mm, T=6.0 mm,
ϕ=5.5 mm
Applications: Home Appliances,
Electric Heating Apparatus
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SK-series.html

Learn more

SKL series
T_f : 200 ~ 230 ℃
I_r : 10 A
U_r : 250 VAC
Body Dimensions: L=23.0 mm, W=12.0 mm, T=5.3 mm,
ϕ=5.0 mm
Applications: Home Appliances,
Electric Heating Apparatus
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SKL-series.html

Learn more

TK series
T_f : 102 ~ 221 ℃
I_r : 15 / 16 A
U_r : 250 VAC
Body Dimensions: L=17.0 mm, W=11.0 mm, T=6.0 mm,
ϕ=5.5 mm
Applications: Home Appliances,
Electric Heating Apparatus
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/TK-series.html

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Thermal-Link (ATCO)
Alloy Type

A
Radial Shape

Learn more

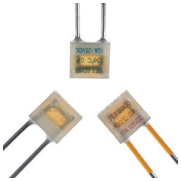
SY series
T_f : 95 ~ 230 ℃
I_r : 10 A
U_r : 250 VAC
Body Dimensions: L=13.0 mm, ϕ=9.0 mm
Applications: Home Appliances,
Electric Heating Apparatus

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SY-series.html

Learn more

TY series
T_f : 95 ~ 145 ℃
I_r : 15 / 16 A
U_r : 250 VAC
Body Dimensions: L=13.0 mm, ϕ=9.0 mm
Applications: Home Appliances,
Electric Heating Apparatus

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/TY-series.html



Learn more

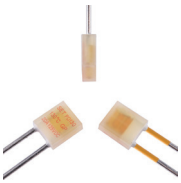
SD series
T_f : 102 ~ 150 ℃
I_r : 10 A
U_r : 125 VDC
Body Dimensions: L=7.5 mm, W=8.6 mm, T=3.6 mm
Applications: Switching Power Supply, Battery,
Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SD-series.html

Learn more

TD series
T_f : 102 ~ 150 ℃
I_r : 15 / 16 A
U_r : 125 VDC
Body Dimensions: L=7.5 mm, W=8.6 mm, T=3.6 mm
Applications: Switching Power Supply, Battery,
Surge Protection Device

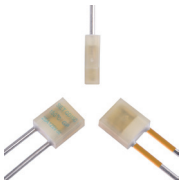
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/TD-series.html



Learn more

PD series
T_f : 102 ~ 150 ℃
I_r : 20 A
U_r : 125 VDC
Body Dimensions: L=11.8 mm, W=10.7 mm, T=4.8 mm
Applications: Switching Power Supply, Battery,
Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/PD-series.html



Learn more

QD series
T_f : 102 ~ 150 ℃
I_r : 25 A
U_r : 125 VDC
Body Dimensions: L=11.8 mm, W=10.7 mm, T=4.8 mm
Applications: Switching Power Supply, Battery,
Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/QD-series.html

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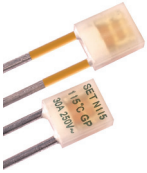
Thermal-Link (ATCO)
Alloy Type

A
Radial Shape

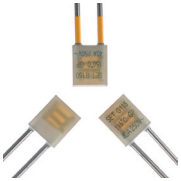


Learn more

N series

T_f : 102 ~ 150 ℃
I_r : 30 A
U_r : 250 VAC
Body Dimensions: L=13.0 mm, W=11.5 mm, T=4.9 mm
Applications: Switching Power Supply,
Home Appliances, Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/N-series.html



Learn more

G series

T_f : 102 ~ 150 ℃
I_r : 40 A
U_r : 250 VAC
Body Dimensions: L=15.5 mm, W=13.8 mm, T=5.7 mm
Applications: Switching Power Supply,
Home Appliances, Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/G-series.html

Learn more

SE series

T_f : 102 ~ 230 ℃
I_r : 10 A
U_r : 250 VAC
Body Dimensions: L=16.0 mm, W=9.0 mm, T=4.0 mm,
ϕ=5.0 mm
Applications: Home Electrical Appliances /
Electric Heating Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SK-series.html

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Thermal-Link (ATCO)
Alloy Type

B
Axial Shape

Learn more

V series
T_f : 76 ~ 221 ℃
I_r : 1 A / (125 / 250 VAC),
1 A / 50 VDC, (2.5 / 4 A) / 60 VDC
U_r : 125 / 250 VAC, 50 / 60 VDC
Body Dimensions: L=6.5 mm, ϕ=2.1 mm
Applications: Motor, Transformer, Lighting, Switching Power Supply, Home Appliances, Diffuser, Electric Blanket, Digital Product

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/V-series.html

Learn more

H series
T_f : 76 ~ 221 ℃
I_r : 2 A / (125 / 250 VAC), 2 A / (50 / 60 VDC), 5 A / 50 VDC
U_r : 125 / 250 VAC, 50 / 60 VDC
Body Dimensions: L=9.0 mm, ϕ=2.5 mm
Applications: Motor, Transformer, Lighting, Electric Blanket, Switching Power Supply, Home Appliances, Diffuser, Digital Product, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/H-series.html

Learn more

B series
T_f : 76 ~ 221 ℃
I_r : 3 A
U_r : 125 / 250 VAC, 50 / 60 VDC
Body Dimensions: L=10.0 mm, ϕ=3.0 mm
Applications: Switching Power Supply, Home Appliances, Electric Blanket

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/B-series.html

Learn more

SF series
T_f : 115 ~ 139 ℃
I_r : 3 / 5 A
U_r : 60 VDC
Body Dimensions: L=6.0 mm, ϕ=1.5 mm
Applications: Motor, Transformer, Lighting, Switching Power Supply, Diffuser, Home Appliances, Electric Blanket

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SF-series.html

Learn more

C series
T_f : 76 ~ 221 ℃
I_r : 5 A / (125 / 250 VAC),
(5 / 7 A) / 50 VDC, (5 / 6 / 8 A) / 60 VDC
U_r : 125 / 250 VAC, 50 / 60 VDC
Body Dimensions: L=11.5 mm, ϕ=3.3 mm
Applications: Motor, Transformer, Lighting, Switching Power Supply, Power Strips, Home Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/C-series.html

Learn more

M series
T_f : 139 ℃
I_r : 9 A
U_r : 60 VDC
Body Dimensions: L=6.5 mm, ϕ=2.1 mm
Applications: Power Strips, Home Appliances, Battery

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/M-series.html

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Thermal-Link (ATCO)
Alloy Type

B
Axial Shape

Learn more

U series
T_f : 76 ~ 221 ℃
I_r : 10 A
U_r : 250 VAC, 60 VDC
Body Dimensions: L=14.0 mm, ϕ=4.0 mm
Applications: Motor, Transformer, Lighting, Switching Power Supply, Power Strips, Home Appliances, Capacitor

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/U-series.html

Learn more

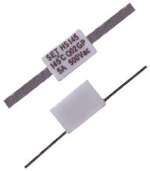
R series
T_f : 76 ~ 221 ℃
I_r : 15 A
U_r : 250 VAC, 60 VDC
Body Dimensions: L=14.0 mm, ϕ=4.0 mm
Applications: Motor, Transformer, Lighting, Switching Power Supply, Power Strips, Home Appliances, Capacitor

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/R-series.html

Learn more

CR series
T_f : 139 ℃
I_r : 15 A
U_r : 60 VDC
Body Dimensions: L=11.5 mm, ϕ=3.3 mm
Applications: Power Strips, Battery, Instrumentation

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/CR-series.html



Learn more

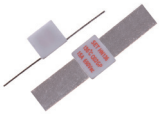
HS series
T_f : 125 ~ 145 ℃
I_r : 5 A
U_r : 500 VAC, 200 VDC
Body Dimensions: L=9.6 mm, W=6.0 mm, T=6.0 mm
Applications: Lighting, Surge Protection Device, Battery, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/HS-series.html

Learn more

HP series
T_f : 125 ~ 145 ℃
I_r : 10 A
U_r : 500 VAC, 200 VDC
Body Dimensions: L=8.6 mm, W=7.6 mm, T=6.0 mm
Applications: Lighting, Surge Protection Device, Battery, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/HP-series.html



Learn more

HN series
T_f : 125 ~ 145 ℃
I_r : 15 A
U_r : 690 VAC, 200 VDC
Body Dimensions: L=10.0 mm, W=10.0 mm, T=7.4 mm
Applications: Lighting, Surge Protection Device, Battery, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/HN-series.html

Abnormal Temperature of Electrical Equipment

Abnormal temperature caused by fault or abnormal operation in electrical equipment or circuit.

Applications

Communication, Automobile, Home Appliances, Components on PCB, Electric Vehicle, Industrial Control and Automation, Lighting, Energy Storage, Photovoltaic, etc.

SETsafe | SETfuse Solution

Under normal working conditions, the alloy is connected between the two leads. When the DC-ATCO feels abnormal heat and reaches to the predetermined Functioning Temp., the alloy melts and quickly retracts to both ends of the lead under the action of the flux, thus disconnect the circuit.

2 Direct Current Thermal-Link (DC-ATCO) Alloy Type

T_f : 76 ~ 230 °C

I_r : 1 ~ 200 A

U_r : 48 ~ 850 VDC

RoHS REACH

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type.html

Product Model Selection Matrix

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type.html?id=25

Rated Voltage (U_r)

A	B	C	D	E
850 ~ 601 VDC	600 ~ 451 VDC	450 ~ 126 VDC	125 ~ 61 VDC	≤ 60 VDC

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Direct Current Thermal-Link
(DC-ATCO) Alloy Type

A Rated Voltage (U_r): 850 ~ 601 VDC

Learn more

TGH series

T_f : 102 ~ 187 ℃
I_r : 15 A
U_r : 850 VDC
I_{min} : 3 A
Applications: Battery Cooling Systems, Heaters, Precharged Resistors, Automotive Air-Conditioners
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TGH-series.html

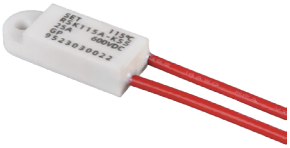
Direct Current Thermal-Link
(DC-ATCO) Alloy Type

B Rated Voltage (U_r): 600 ~ 451 VDC

Learn more

ASLxxxA series

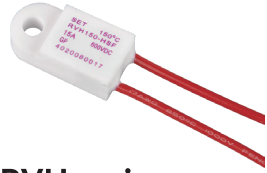
T_f : 102 ~ 187 ℃
I_r : 30 A
U_r : 600 VDC
I_{min} : 0.5 A
Applications: Battery Cooling Systems, Heaters, Precharged Resistors, Automotive Air-Conditioners
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/ASLxxxA-series.html



Learn more

RSKxxxA series

T_f : 102 ~ 187 ℃
I_r : 25 A
U_r : 600 VDC
I_{min} : 3 A
Applications: Battery Cooling Systems, Heaters, Precharged Resistors, Automotive Air-Conditioners
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/RSKxxxA-series.html



Learn more

RVH series

T_f : 102 ~ 187 ℃
I_r : 15 A
U_r : 600 VDC
I_{min} : 0.5 A
Applications: Battery Cooling Systems, Heaters, Precharged Resistors, Automotive Air-Conditioners
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/RVH-series.html

Learn more

ARL series

T_f : 86 ~ 187 ℃
I_r : 30 A
U_r : 500 VDC
I_{min} : 0 A
Applications: Battery Cooling Systems, Heaters, Precharged Resistors, Automotive Air-Conditioners
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/ARL-series.html

Direct Current Thermal-Link
(DC-ATCO) Alloy Type

B Rated Voltage (U_r): 600 ~ 451 VDC

Learn more

RPK series

T_f : 102 ~ 150 ℃
I_r : 15 A
U_r : 500 VDC
Applications: Battery Cooling Systems, Heaters, Precharged Resistors, Automotive Air-Conditioners
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/RPK-series.html

Direct Current Thermal-Link
(DC-ATCO) Alloy Type

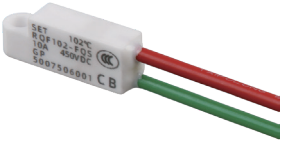
C Rated Voltage (U_r): 450 ~ 126 VDC

Learn more

TGxxxC series

T_f : 86 ~ 150 ℃
I_r : 15 / 20 A
U_r : 400 / 450 VDC, 600 VAC
Applications: Battery Cooling Systems, Heaters, Precharged Resistors, Automotive Air-Conditioners

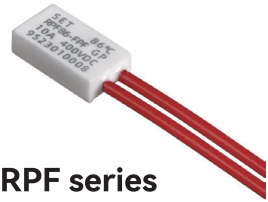
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TGxxxC-series.html



Learn more

RQF series

T_f : 86 ~ 187 ℃
I_r : 10 A
U_r : 450 VDC
I_{min} : 3 A
Applications: Battery Cooling Systems, Heaters, Precharged Resistors, Automotive Air-Conditioners
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/RQF-series.html



Learn more

RPF series

T_f : 86 ~ 102 ℃
I_r : 10 A
U_r : 400 VDC
I_{min} : 0.5 A
Applications: Battery Cooling Systems, Pre-charged Resistors, Air-Conditioners Heaters, High Power LED
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/RPF-series.html

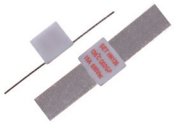
Learn more

ALP series

T_f : 102 ~ 125 ℃
I_r : 15 / 60 A
U_r : 180 / 200 VDC
Applications: Battery Cooling Systems, Pre-charged Resistors, Air-Conditioners Heaters, High Power LED
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/ALP-series.html

Direct Current Thermal-Link
(DC-ATCO) Alloy Type

C Rated Voltage (U_r): 450 ~ 126 VDC

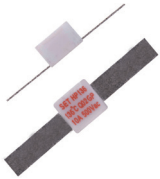


Learn more

HN series

T_f : 125 ~ 145 ℃
I_r : 15 A
U_r : 200 VDC, 690 VAC
Applications: Lighting, Surge Protection Device, Battery, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/HN-series.html

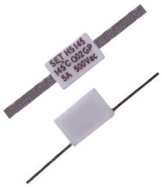


Learn more

HP series

T_f : 125 ~ 145 ℃
I_r : 10 A
U_r : 200 VDC, 500 VAC
Applications: Lighting, Surge Protection Device, Battery, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/HP-series.html



Learn more

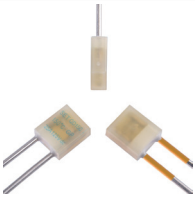
HS series

T_f : 125 ~ 145 ℃
I_r : 5 A
U_r : 200 VDC, 500 VAC
Applications: Lighting, Surge Protection Device, Battery, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/HS-series.html

Direct Current Thermal-Link
(DC-ATCO) Alloy Type

D Rated Voltage (U_r): 125 ~ 61 VDC

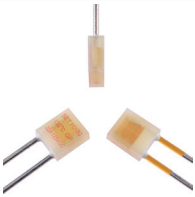


Learn more

QD series

T_f : 102 ~ 150 ℃
I_r : 25 A
U_r : 125 VDC
Applications: Switching Power Supply, Battery, Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/QD-series.html



Learn more

PD series

T_f : 102 ~ 150 ℃
I_r : 20 A
U_r : 125 VDC
Applications: Switching Power Supply, Battery, Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/PD-series.html

Direct Current Thermal-Link
(DC-ATCO) Alloy Type

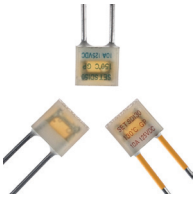
D Rated Voltage (U_r): 125 ~ 61 VDC

Learn more

TD series

T_f : 102 ~ 150 ℃
I_r : 15 / 16 A
U_r : 125 VDC
Applications: Switching Power Supply, Battery, Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TD-series.html

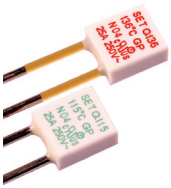


Learn more

SD series

T_f : 102 ~ 150 ℃
I_r : 10 A
U_r : 125 VDC
Applications: Switching Power Supply, Battery, Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/SD-series.html

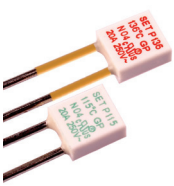


Learn more

Q series

T_f : 102 ~ 136 ℃
I_r : 25 A
U_r : 120 VDC, 250 /300 /400 VAC
Applications: Switching Power Supply, Power Strips, Home Appliances, Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/Q-series.html

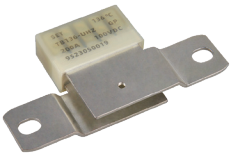


Learn more

P series

T_f : 102 ~ 221 ℃
I_r : 20 A
U_r : 120 VDC, 250 / 300 / 400 VAC
Applications: Switching Power Supply, Power Strips, Home Appliances, Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/P-series.html

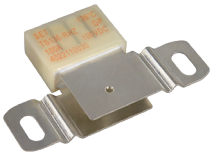


Learn more

TB series

T_f : 102 ~ 136 ℃
I_r : 200 A
U_r : 100 VDC, 125 VAC
Applications: EV Battery Modules, Power Supplies

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TB-series.html



Learn more

TS series

T_f : 102 ~ 136 ℃
I_r : 80 / 100 A
U_r : 100 VDC, 125 / 250 VAC
Applications: EV Battery Modules, Automatic Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TS-series.html

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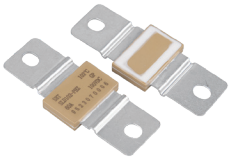
Direct Current Thermal-Link (DC-ATCO) Alloy Type

D Rated Voltage (U_r): 125 ~ 61 VDC



Learn more

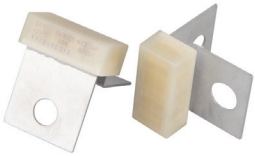
SLx series

T_f : 102 ~ 136 ℃
I_r : 25 / 30 / 40 / 50 / 60 / 80 A
U_r : 100 VDC, 125 VAC
Applications: EV Battery Modules, PTC Heaters, Power Supplies

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/SLx-series.html

Direct Current Thermal-Link (DC-ATCO) Alloy Type

E Rated Voltage (U_r): ≤ 60 VDC



Learn more

TVB series

T_f : 102 ~ 136 ℃
I_r : 50 A
U_r : 60 VDC
Applications: EV Battery Modules, High Power Solid State Relays

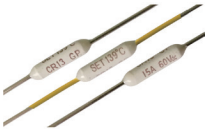
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TVB-series.html

Learn more

R series

T_f : 76 ~ 221 ℃
I_r : 15 A
U_r : 60 VDC, 250 VAC
Applications: Motor, Transformer, Lighting, Switching Power Supply, Power Strips, Home Appliances, Capacitor

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/R-series.html



Learn more

CR series

T_f : 139 ℃
I_r : 15 A
U_r : 60 VDC
Applications: Power Strips, Battery, Instrumentation

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/CR-series.html

Learn more

U series

T_f : 76 ~ 221 ℃
I_r : 10 A
U_r : 60 VDC, 250 VAC
Applications: Motor, Transformer, Lighting, Switching Power Supply, Power Strips, Home Appliances, Capacitor

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/U-series.html

Direct Current Thermal-Link
(DC-ATCO) Alloy Type

E Rated Voltage (U_r): ≤ 60 VDC

Learn more

M series

T_f : 139 ℃
I_r : 9 A
U_r : 60 VDC
Applications: Power Strips, Home Appliances, Battery

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/M-series.html

Learn more

C series

T_f : 76 ~ 221 ℃
I_r : (5 / 7 A) / 50 VDC, (5 / 6 / 8 A) / 60 VDC, 5 A / (125 / 250 VAC)
U_r : 50 / 60 VDC, 125 / 250 VAC
Applications: Motor, Transformer, Lighting, Switching Power Supply, Power Strips, Home Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/C-series.html

Learn more

SF series

T_f : 115 ~ 139 ℃
I_r : 3 / 5 A
U_r : 60 VDC
Applications: Motor, Transformer, Lighting, Switching Power Supply, Diffuser, Home Appliances, Electric Blanket

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/SF-series.html

Learn more

X series

T_f : 76 ~ 221 ℃
I_r : 4 A / 60 VDC, 3 A / 250 VAC
U_r : 60 VDC, 250 VAC
Applications: Motor, Transformer, Lighting, Switching Power Supply, Home Appliances, Diffuser, Electric Blanket, Battery, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/X-series.html

Learn more

K series

T_f : 76 ~ 221 ℃
I_r : 4 A / 60 VDC, 2 A / 250 VAC
U_r : 60 VDC, 250 VAC
Applications: Motor, Transformer, Lighting, Switching Power Supply, Home Appliances, Diffuser, Electric Blanket, Battery, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/K-series.html

Learn more

V series

T_f : 76 ~ 221 ℃
I_r : 1 A / 50 VDC, (1 / 2.5 / 4 A) / 60 VDC, 1 A / (125 / 250 VAC)
U_r : 50 / 60 VDC, 125 / 250 VAC
Applications: Motor, Transformer, Lighting, Switching Power Supply, Home Appliances, Diffuser, Electric Blanket , Digital Product

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/V-series.html

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Direct Current Thermal-Link
(DC-ATCO) Alloy Type

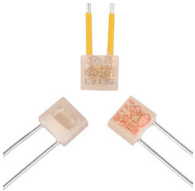
E Rated Voltage (U_r): ≤ 60 VDC

Learn more

B series

T_f : 76 ~ 221 ℃
I_r : 3 A
U_r : 50 / 60 VDC, 125 / 250 VAC
Applications: Switching Power Supply, Home Appliances, Electric Blanket

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/B-series.html



Learn more

F series

T_f : 76 ~ 160 ℃
I_r : 3 A / 60 VDC, 1 A / 250 VAC
U_r : 60 VDC, 250 VAC
Applications: Motor, Transformer, Lighting, Switching Power Supply, Diffuser, Home Appliances, Electric Blanket

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/F-series.html

Learn more

XG series

T_f : 76 ~ 221 ℃
I_r : 3 A
U_r : 60 VDC, 250 VAC
Applications: Lighting, Switching Power Supply, Home Appliances, Battery, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/XG-series.html

Learn more

H series

T_f : 76 ~ 221 ℃
I_r : 2 A / (50 / 60 VDC), 5 A / 50 VDC, 2 A / (125 / 250 VAC)
U_r : 50 / 60 VDC, 125 / 250 VAC
Applications: Motor, Transformer, Lighting, Electric Blanket, Switching Power Supply, Home Appliances, Diffuser, Digital Product, Automotive Electronics

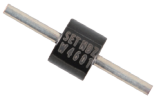
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/H-series.html

Learn more

KG series

T_f : 76 ~ 221 ℃
I_r : 2 A
U_r : 60 VDC, 250 VAC
Applications: Lighting, Switching Power Supply, Home Appliances, Battery, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/KG-series.html



Learn more

ADNxxxB series

T_f : 205 ~ 230 ℃
I_r : 50 / 55 / 80 A
U_r : 48 VDC
Applications: Steam mop, ABS, Motors

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/ADNxxxB-series.html

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Abnormal Temperature of Electrical Equipment

Abnormal temperature caused by fault or abnormal operation in electrical equipment or circuit.

Applications

Home Appliances, Personal Care Appliances, Automotive Electronics, Electric Tool, Commercial Appliances, Office Equipment

SETsafe | SETfuse Solution

An Organic Thermal-Link (OTCO) is connected in series within the heating component circuit. Under normal operating conditions, the internal contact leads maintain contact with the movable electrode (or rivet), keeping the circuit in a conductive state. When abnormal overheating occurs and the thermal pellet senses the heat reaching its predetermined melting temperature, the pellet melts. Consequently, the movable electrode (or rivet) is forced to disengage from the contact leads by the compression spring, thereby interrupting the circuit. This prevents further heating and eliminates hazards such as casing melting or fire.

3

Thermal-Link (OTCO)

Organic Type

I_r : 10 A, 10 / 15 A, 16 A, 20 A, 25 A, 30 A

U_r : 250 VAC, 24 VDC, 48 VDC

T_f : 72 ~ 310 °C

RoHS REACH

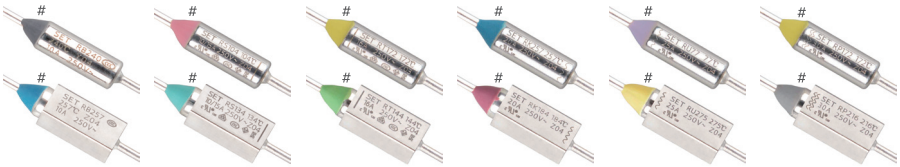
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type.html

Product Model Selection Matrix

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type.html?id=21

Rated Current (I_r)

A	B	C	D	E	F
10 A	10 / 15 A	16 A	20 A	25 A	30 A



" # " : Each current sealing resin has more than 10 colors, the details are subject to the actual product.

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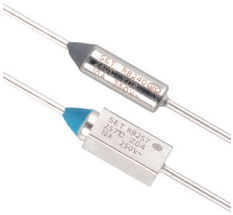
Thermal-Link (OTCO)
Organic Type

A

Rated Current (I_r): 10 A



RB series

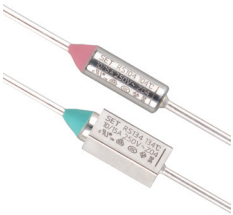
CCC certificate only
T_f : 72 ~ 310 ℃
I_r : 10 A
U_r : 250 VAC
Body Dimensions (Cylinder-shaped): L=11.3 mm, ϕ=4 mm
Body Dimensions (Square-shaped): L_3=11.3 mm, H=4.6 mm
Applications: Kitchen and Toilet Appliance, Office Equipment, Personal Care Appliance, Cleaning Appliances, Electric Tool, Environment Appliances, Automotive Electronics, Commercial Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type/RB-series.html

Thermal-Link (OTCO)
Organic Type

B

Rated Current (I_r): 10 / 15 A



RS series

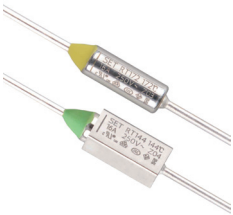
T_f : 72 ~ 310 ℃
I_r : 10 / 15 A
U_r : 250 VAC
Body Dimensions (Cylinder-shaped): L=11.3 mm, ϕ=4 mm
Body Dimensions (Square-shaped): L_3=11.3 mm, H=4.6 mm
Applications: Kitchen and Toilet Appliance, Office Equipment, Personal Care Appliance, Cleaning Appliances, Electric Tool, Environment Appliances, Automotive Electronics, Commercial Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type/RS-series.html

Thermal-Link (OTCO)
Organic Type

C

Rated Current (I_r): 16 A

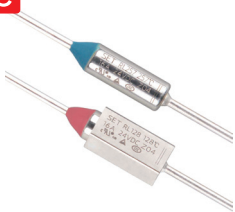


RT series

T_f : 72 ~ 310 ℃
I_r : 16 A
U_r : 250 VAC
Body Dimensions (Cylinder-shaped): L=11.3 mm, ϕ=4 mm
Body Dimensions (Square-shaped): L_3=11.3 mm, H=4.6 mm
Applications: Kitchen and Toilet Appliance, Office Equipment, Personal Care Appliance, Cleaning Appliances, Electric Tool, Environment Appliances, Automotive Electronics, Commercial Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type/RT-series.html

DC



RL series

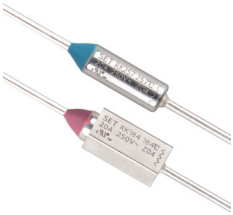
T_f : 72 ~ 310 ℃
I_r : 16 A
U_r : 24 VDC
Body Dimensions (Cylinder-shaped): L=11.3 mm, ϕ=4 mm
Body Dimensions (Square-shaped): L_3=11.3 mm, H=4.6 mm
Applications: Kitchen and Toilet Appliance, Electric Tool, Personal Care Appliance, Cleaning Appliances, Environment Appliances, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type/RL-series.html

Thermal-Link (OTCO)
Organic Type

D

Rated Current (I_r): 20 A



RK series

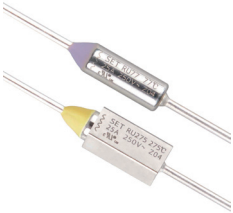
T_f : 72 ~ 310 ℃
I_r : 20 A
U_r : 250 VAC
Body Dimensions (Cylinder-shaped): L=11.5 mm, ϕ=4 mm
Body Dimensions (Square-shaped): L_3=11.5 mm, H=4.6 mm
Applications: Kitchen and Toilet Appliance, Office Equipment, Environment Appliances, Cleaning Appliances, Electric Tool, Automotive Electronics, Commercial Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type/RK-series.html

Thermal-Link (OTCO)
Organic Type

E

Rated Current (I_r): 25A



RU series

T_f : 72 ~ 310 ℃
I_r : 25 A
U_r : 250 VAC
Body Dimensions (Cylinder-shaped): L=11.5 mm, ϕ=4 mm
Body Dimensions (Square-shaped): L_3=11.5 mm, H=4.6 mm
Applications: Kitchen and Toilet Appliance, Office Equipment, Environment Appliances, Cleaning Appliances, Electric Tool, Automotive Electronics, Commercial Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type/RU-series.html

DC

RM series

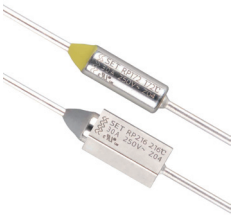
T_f : 72 ~ 310 ℃
I_r : 25 A
U_r : 48 VDC
Body Dimensions (Cylinder-shaped): L=11.5 mm, ϕ=4 mm
Body Dimensions (Square-shaped): L_3=11.5 mm, H=4.6 mm
Applications: Kitchen and Toilet Appliance, Electric Tool, Personal Care Appliance, Cleaning Appliances, Environment Appliances, Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type/RM-series.html

Thermal-Link (OTCO)
Organic Type

F

Rated Current (I_r): 30 A



RP series

T_f : 72 ~ 310 ℃
I_r : 30 A
U_r : 250 VAC
Body Dimensions (Cylinder-shaped): L=11.5 mm, ϕ=4 mm
Body Dimensions (Square-shaped): L_3=11.5 mm, H=4.6 mm
Applications: Kitchen and Toilet Appliance, Office Equipment, Environment Appliances, Cleaning Appliances, Electric Tool, Automotive Electronics, Commercial Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type/RP-series.html

Abnormal Temperature of Electrical Equipment

Abnormal temperature caused by fault or abnormal operation in electrical equipment or circuit.

Applications

Fire-fighting Equipment, Remote Signaling Switch, etc.

SETsafe | SETfuse Solution

Normally, the solid thermal pellet keeps the isolated lead and disc separating. When the thermal pellet sensed abnormal heat and Temp. reaches the predetermined Temp., thermal pellet melts and the isolated lead and disc contact, with the assistance of spring, thereby the circuit is connected.

4

Thermal Turn On (TTO)
Organic Type

T_f: 73 ~ 217 °C

I_r: 1 A

U_r: 250 VAC

RoHS REACH

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Turn-On-TTO-Organic-Type.html

Product Model Selection Matrix

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Turn-On-TTO-Organic-Type.html?Id=13507

R series

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……

Consumer Applications

Residential Energy Storage, Lighting, Electric Vehicles, Major Appliances, Consumer Power Supplies, Batteries, Environmental & Sanitary Appliances, Healthcare Appliances, Power Tools, Personal Digital Products, Small Appliances, Kitchen Appliances, Domestic Robotics, Office Equipment, Children's Toys, Lightning Protection
……

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2026 Product Catalog

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