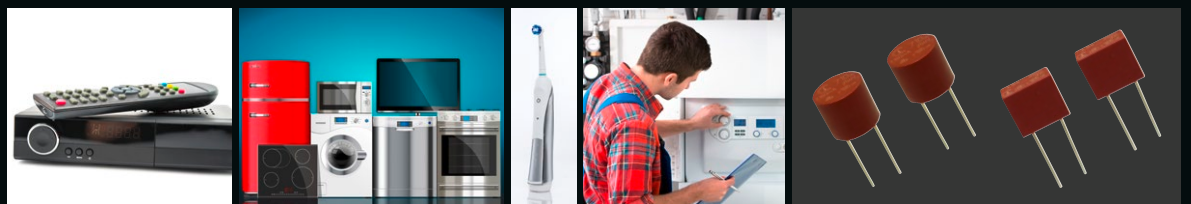


Overcurrent Protection

Leading in electronic fuses and customized protectors for consumer electronics, lighting systems and industrial controls



INTER CONTROL – Reliable Innovations

CONTROL | REGULATE | PROTECT

INTER CONTROL is an independent family business headquartered in Germany. We have been committed to business continuity and partnership since our foundation in 1964. Our employees and management focus on innovative technology, simplicity and modularity in design, efficient processes and automated manufacturing methods.

In this way we assist our customers in household appliances businesses, worldwide – from the idea to series production.

Product description

Non-Resettable Fuse

- Current inrush pulse stability
- Lead-free / RoHS compliant
- Internationally approved

Non-Resettable Fuse

- Internal variable resistance ahead of rated current relation
- EMV surge wave optimized
- Low voltage drop
- Customized I-t-characteristic

Non-Resettable Fuse

- Advanced time-lag characteristic
- Lead-free / RoHS compliant
- Optimized body for pick and place with plane surface level

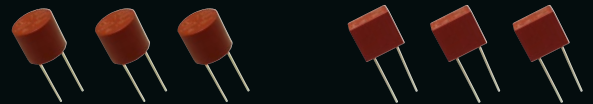
Non-Resettable Fuse

- High performance in small standard design (1206/0603)
- Very fast acting
- High operation temperature
- Excellent environmental integrity

Resettable Fuse

- Low resistance
- Low profile / small footprint
- Fast response to incorrect current
- Low resistance degradation due to overload conditions

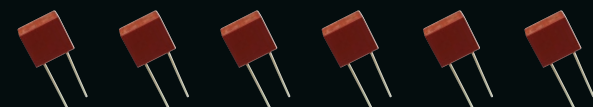
Fuses and protectors



Micro Fuses / THD

Round

Rectangular



Protectors / THD

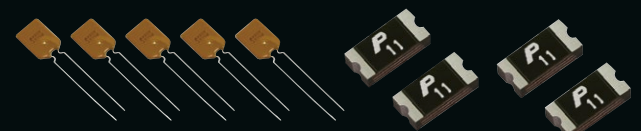
Rectangular



Fuses / SMD



Chip-Fuses / SMD



Resettable PPTC's / SMD and THD

Product description

Fuse holder with open design

- for micro fuses & sub-miniature fuses
- for automatic assembling & soldering of SMD fuses

Holders for fuses and protectors



Fuse Holders



Production & Supply

Automated manufacturing in Europe and Asia

- Our customers require on-time supply of overcurrent fuses with consistent high quality.
- We use automated manufacturing technology, together with testing and camera inspection. In combination with short setup times we ensure best quality and delivery performance for small and large quantities.
- Constant review production targets to improve our processes, efficiency and technical standards.



Product specification and properties

| | | |
|-------------------|--|---|
| Type and Size | 310 with 8x4,3x8 mm 710 with 8,5x8 mm | Standard IEC 60127-3/4 EN 60335-1 |
| Rated voltage | 250 / 277 VAC | |
| Rated current | 40 mA .. 6,3 A | |
| Breaking capacity | 250 / 277 VAC; 100 A | |

| | | |
|-------------------|--|------------------------|
| Type and size | F-110 with 8x4,3x8 mm F-130 with 8x4,3x8 mm | Standard EN 60335-1 |
| Rated voltage | 250 / 277 VAC | |
| Rated current | 40 mA .. 6,3 A | |
| Breaking capacity | 250 / 277 VAC; 20 .. 100 A | |
| Parameters | <i>rated current, melting integral and impedance</i> | |

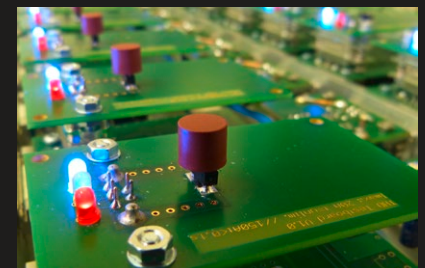
| | | |
|-------------------|----------------------------|------------------------|
| Type and size | F-210 with 3,1x3,1x10,1 mm | Standard |
| Rated voltage | 250 / 277 VAC; 350 VDC | IEC 60127-4/2 (UMF) |
| Rated current | 40 mA .. 6,3 A | EN 60335-1 |
| Breaking capacity | 250 / 277 VAC; 150 A | |

| | | |
|-------------------|-----------------------|----------|
| Type and size | F-520 with 3,2x1,6 mm | Standard |
| Rated voltage | 125 VAC/DC | UL248-14 |
| Rated current | 250 mA .. 5 A | |
| Breaking capacity | 125 VAC/DC; 50 A | |

| | | |
|-----------------------------------|---------------|----------|
| Resettable overcurrent protection | | Standard |
| Rated voltage | 6 .. 72 VDC | UL1434 |
| Rated current | 40 mA .. 14 A | |

Product specification and properties

| | | |
|------------------------------------|------------|-------------|
| Fuse holders for THD and SMD Fuses | | Standard |
| Rated voltage | 250 VAC | IEC 60127-6 |
| Rated current | 6,3 A | EN 60335-1 |
| Power dissipation | max. 1,6 W | |



Product Development & Customer Service

15 years of experience

- Our targets**
- Understand customer and market requirements
 - Develop innovative products with customer benefits
 - Perform outstanding customer service

- Our service**
- Local technical advice and design-in support
 - R&D competence centre in Germany
 - Reduced development time and cost
 - Products designed for individual applications



Applications

Electric ballasts Electric heaters

Electric ovens Building automation

Health care products Medical devices

Heating systems Dish washers

Power generation Telecom infrastructure

Tumble dryers Industrial controllers

Process measuring and control technology

Cooking machines Energy saving systems

Chargers / power supplies LED drivers

Smart phones LCD TVs Digital cameras

Washing machines Tablets

Electronic devices and electrical circuits require an overcurrent protection in order to avoid incorrect operational conditions.

This protection is guaranteed with our high quality fuses. They exist in a non-resettable and resettable version.

Our fuses are produced in various formats and classes to meet the different requirements for virtually every application.