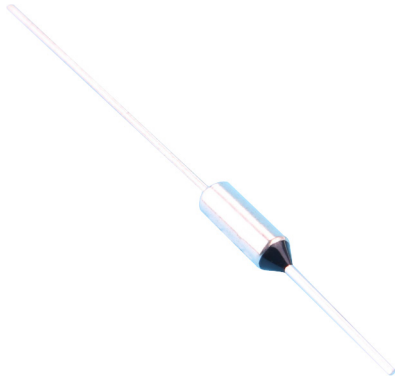


Thermal Fuses

Axial

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**RoHS
Compliant**



Description

The thermal cutoff fuses are non-resetting single-pole and normally closed devices and provide accurate, reliable protection for high temperature applications against overheating through interrupting electric current. With their metal body and strong leads these fuses offer a sturdy built and high rated currents such as 10 or 15 Amperes.

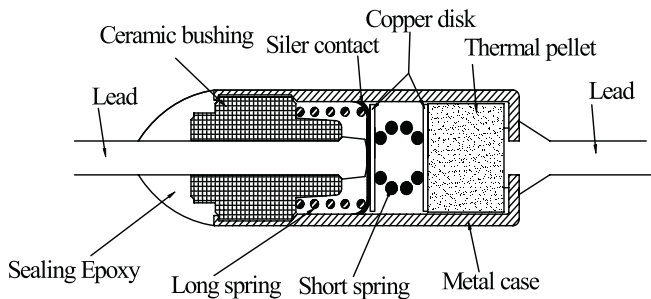
Application

These series thermal fuses are widely used in various applications such as transformers, adapters, secondary batteries, household appliances, gas water heaters, lighting and other heating equipment.

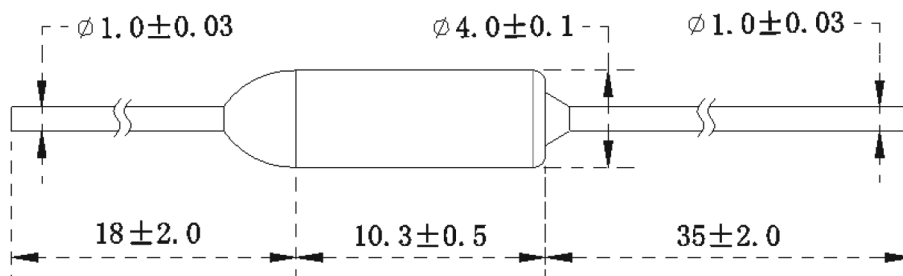
Features

- Metal casing, epoxy sealing material
- Small size, 14mm×10mm
- 1mm lead wires made of tin or silver plated copper.
- Protection against harmful over-temperature in primary and secondary applications.
- Lead-free
- Designed according to IEC 60691, UL 60691, EN 60691, etc.

Construction



Dimensions



Dimensions : Millimetres

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Thermal Fuses

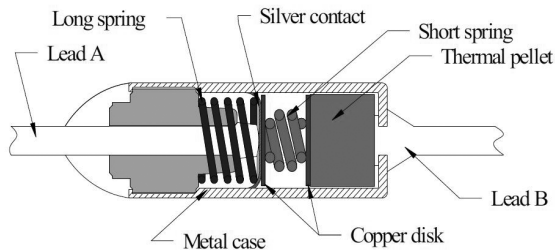
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Operation Principle

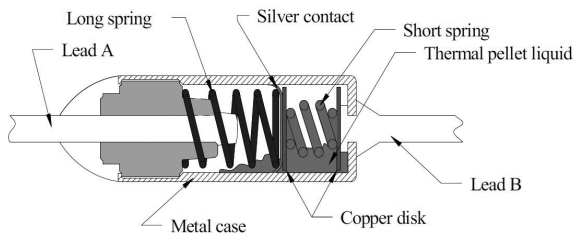
Before action

In normal condition the thermal pellet keeps the Short Spring in tension, which provides contact between the copper disk and the silver contact. All parts, lead A, silver contact, metal case and lead B are connected and electric circuit current can pass freely through the thermal fuse.



Cut off

When the temperature increases and reaches the Rated Functioning Temperature (T_f), the thermal pellet starts to melt and liquefies. This will release the Long Spring and separates the silver contact from the lead, cutting off the current.



Electrical Characteristics at 25°C

Part number	T_f (°C)	Operating Temperature (°C)	T_h (°C)	T_m (°C)	I_r (A)	Voltage (V)	Approvals					
							UL	CCC	TUV	PSE	VDE	KC
MP010185	84	80±3	69	180	10A	250V AC	•	•	•	•	○	•
MP010186	99	95±2	83	180			•	•	•	•	•	•
MP010187	113	108±2-3	95	180			•	•	•	•	•	•
MP010188	121	117±3	106	180			•	•	•	•	•	•
MP010189	128	124±3	113	200			•	•	•	•	○	•
MP010190	142	138±3	127	200			•	•	•	•	•	•
MP010191	152	149±2	137	210			•	•	•	•	○	•
MP010192	167	164±2	153	250			•	•	•	•	○	•
MP010193	172	168±3	153	230			•	•	•	•	•	•
MP010194	184	180±2	160	210			•	•	○	•	•	○
MP010195	192	189±2	177	320			•	•	•	•	•	•
MP010196	216	213±3	200	380			•	•	•	•	•	•
MP010197	229	225±2	200	380			•	•	•	•	○	•
MP010198	240	235±2	210	380			•	•	•	•	•	•

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Part number	Tf (°C)	Operating Temperature (°C)	Th (°C)	Tm (°C)	Ir (A)	Voltage (V)	Approvals					
							UL	CCC	TUV	PSE	VDE	KC
MP010199	73	69±2	57	180	15A	250V AC	●	●	●	●	●	●
MP010200	77	72±2	62	180			●	●	●	●	○	●
MP010201	84	80±3	69	180			●	●	●	●	○	●
MP010202	94	91+3-2	78	180			○	●	●	●	○	●
MP010203	99	95±2	83	180			●	●	●	●	●	●
MP010204	113	108+2-3	95	180			●	●	●	●	●	●
MP010205	121	117±3	106	180			●	●	●	●	●	●
MP010206	133	129+3-2	118	400			●	●	●	●	●	●
MP010207	142	138±3	127	200			●	●	●	●	●	●
MP010208	152	149±2	137	210			●	●	●	●	○	●
MP010209	157	152±2	138	200			●	●	●	●	●	●
MP010210	167	164±2	153	250			●	●	●	●	○	●
MP010211	172	168±3	153	230			●	●	●	●	●	●
MP010212	184	180±2	160	210			●	●	○	●	●	○
MP010213	192	189±2	177	320			●	●	●	●	●	●
MP010214	216	213±3	200	380			●	●	●	●	●	●
MP010215	229	225±2	200	380			●	●	●	●	○	●
MP010216	240	235±2	210	380			●	●	●	●	●	●

Note: (1) **: Response the 10 or 15.

(2) ●=Approved ○=Pending

(3) The parameters of Th and Tm in table are PSE certification parameter, only Th parameter of 152°C and 167°C are UL standard.

(4) The 125V AC certification only for UL.

Part Number Table

Description	Part Number
Thermal Fuse, 10A, 84°C, Axial	MP010185
Thermal Fuse, 10A, 99°C, Axial	MP010186
Thermal Fuse, 10A, 113°C, Axial	MP010187
Thermal Fuse, 10A, 121°C, Axial	MP010188
Thermal Fuse, 10A, 128°C, Axial	MP010189
Thermal Fuse, 10A, 142°C, Axial	MP010190
Thermal Fuse, 10A, 152°C, Axial	MP010191
Thermal Fuse, 10A, 167°C, Axial	MP010192
Thermal Fuse, 10A, 172°C, Axial	MP010193
Thermal Fuse, 10A, 184°C, Axial	MP010194
Thermal Fuse, 10A, 192°C, Axial	MP010195

Description	Part Number
Thermal Fuse, 10A, 216°C, Axial	MP010196
Thermal Fuse, 10A, 229°C, Axial	MP010197
Thermal Fuse, 10A, 240°C, Axial	MP010198
Thermal Fuse, 15A, 73°C, Axial	MP010199
Thermal Fuse, 15A, 77°C, Axial	MP010200
Thermal Fuse, 15A, 84°C, Axial	MP010201
Thermal Fuse, 15A, 94°C, Axial	MP010202
Thermal Fuse, 15A, 99°C, Axial	MP010203
Thermal Fuse, 15A, 113°C, Axial	MP010204
Thermal Fuse, 15A, 121°C, Axial	MP010205
Thermal Fuse, 15A, 133°C, Axial	MP010206

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Thermal Fuses

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Description	Part Number
Thermal Fuse, 15A, 142°C, Axial	MP010207
Thermal Fuse, 15A, 152°C, Axial	MP010208
Thermal Fuse, 15A, 157°C, Axial	MP010209
Thermal Fuse, 15A, 167°C, Axial	MP010210
Thermal Fuse, 15A, 172°C, Axial	MP010211

Description	Part Number
Thermal Fuse, 15A, 184°C, Axial	MP010212
Thermal Fuse, 15A, 192°C, Axial	MP010213
Thermal Fuse, 15A, 216°C, Axial	MP010214
Thermal Fuse, 15A, 229°C, Axial	MP010215
Thermal Fuse, 15A, 240°C, Axial	MP010216

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