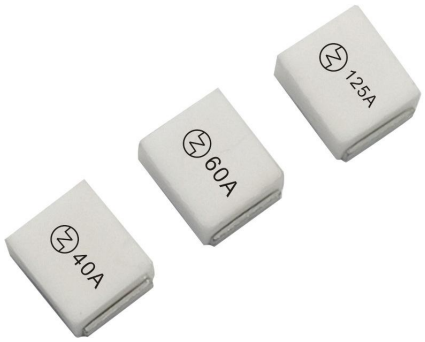
# 1210H

## Surface Mount Fuses 1210H 11.8x10x6.25 (mm)

REOMAX ELECTRONICS TECHNOLOGY Co.,LTD

RoHS Compliance | REACH Compliance | Halogen Free




## Description

REOMAX The1210H high Current Fuse is designed for the purpose of external short circuit protection of the lithium ion battery of medium sizes, such as a power tool and an electric assistant bicycle.Though it was a surface mount type, it was small and realized high current rating, because a fuse element and a terminal adopt the structure of one.

| % rated current | Opening Time Min / Max (s) |
|---|---|
| | 20A~125A |
| 100% | >4h |
| 250% | <10S |

| Agency Approvals | | |
|---|---|---|
| Agency | Ampere Range | Agency File Number |
| cULus | 20A~125A | E340427 |

## Features

- Small size with high current rating for short circuit protection
- Ceramic body with Ceramic base filler
- Suitable for automatic mounting
- Surface mount type and small size of 11.8X10X6.25(mm)
- RoHS and Lead Free material

## Applications

- Storage system power
- Cooling fan system for PC server / PC
- Voltage regulator module
- Base station power supply
- Voltage regulator module for PC server / PC
- High-end server/Blade server
- Battery management system

## Electrical Specifications

| Part Number | Ampere Rating | Voltage Rating | Breaking Capacity | Typical Cold DCR*(mΩ) | Melting I²t @10 In [A²s] | Agency Approvals cULus |
|---|---|---|---|---|---|---|
| 1210H.50 | 50A | DC125V DC110V DC100V DC85V DC 75V DC 48V DC 32V | 3KA | 1 | 886 | ● |
| 1210H.60 | 60A | | | 0.83 | 1520 | ● |
| 1210H.80 | 80A | | | 0.6 | 3710 | ● |
| 1210H.100 | 100A | | | 0.46 | 6200 | ● |
| 1210H.125 | 125A | | | 0.38 | 15200 | ● |
| | | | | | | |



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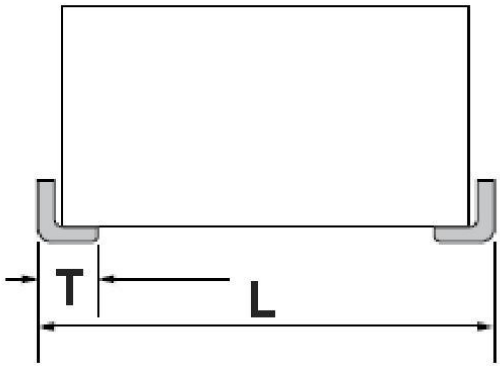
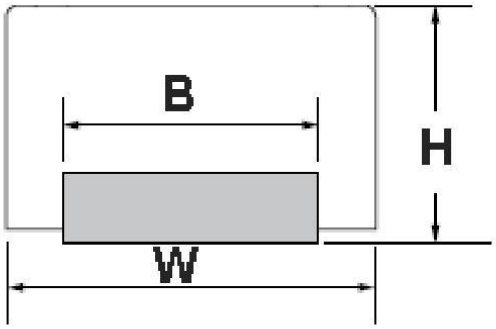
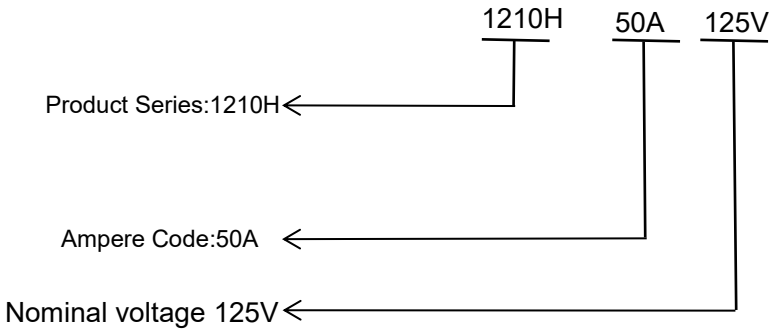
## Dimensions: mm



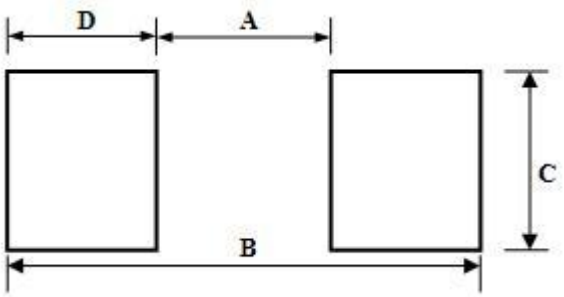




| Models | T(mm) | L(mm) | B(mm) | W(mm) | H(mm) |
|---|---|---|---|---|---|
| 1210H | 2.00±0.3 | 11.8±0.5 | 6.25±0.3 | 10±0.3 | 6.3±0.3 |

## Ordering Information:




## Recommended layout




| Models | 1210T |
|---|---|
| A(mm) | 8±0.3 |
| B(mm) | 14±0.3 |
| C(mm) | 10±0.30 |
| D(mm) | 3±0.30 |



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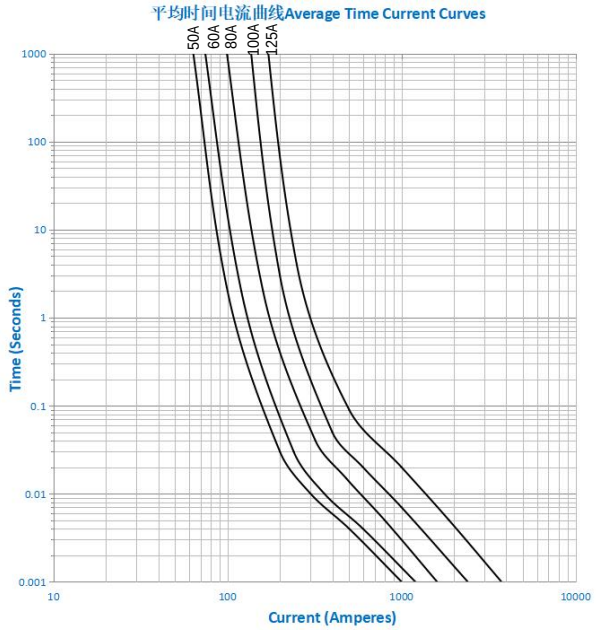
## Surface Mount Fuses 1210H 11.8x10x6.25 (mm)

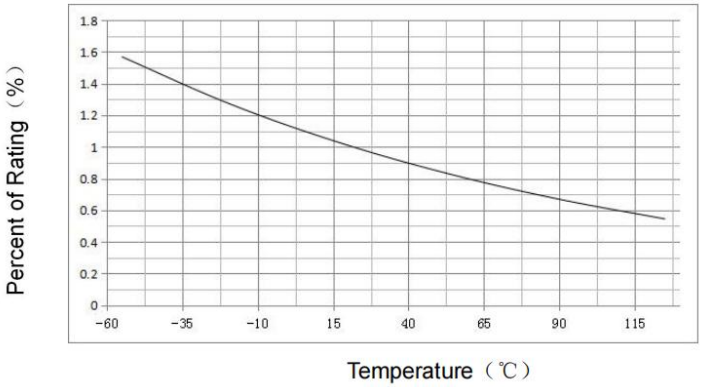
## Materials：

| Serial number | Part Name | Material |
|---|---|---|
| 1 | Body | Ceramic |
| 2 | Fuse element | Tin Plated Copper |
| 3 | filler | silica sand |
| 4 | encapsulation | Silica gel |

## Average Time Current Curves：

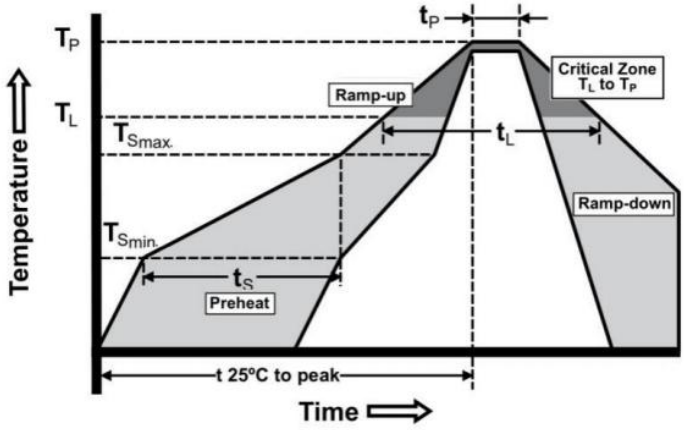



## Environmental Characteristic




## Recommended Soldering Parameters

1. Infrared Reflow:
   - Temperature: 260℃
   - Time: 20sec Max.
   - Recommend Reflow profile




| Profile Feature | Pb-Free Assembly |
|---|---|
| Average Ramp-up Rate($Ts_{max}$ to Tp) | 3℃/sec Max. |
| Preheat<br>Temperature Min.($Ts_{min}$)<br>Temperature Max.($Ts_{max}$)<br>Time($Ts_{min}$ to $Ts_{max}$) | <br>150℃<br>200℃<br>60sec~120sec |
| Peak Temperature(Tp) | 260℃ |
| Time within 5℃ of actual Peak Temperature($t_p$) | 20sec |
| Temperature (TL ) | 217℃ |
| Melting tin time($t_L$) | 60sec~150sec |
| Ramp-down Rate | 6℃/sec Max. |
| Time 25℃ to peak Temperature | 8min Max. |



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