

Surface Mount Fuse, PTC, 1210 footprint, 3.2 x 2.6 mm, 30 VDC

new



6.0 - 30.0VDC · 0.05 - 1.5A



### Description

- Directly solderable on printed circuit boards
- 100% compatible with the PFMU type

### Standards

- UL 1434
- CSA C22.2 no. 0, TIL no. CA-3A

### Approvals

- Approval Reference Type: PFUF
- UL File Number: E172175

### Applications

- Game console port protection
- PC motherboards
- Cellular Phone

### References

[Packaging Details](#)

### Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

### Technical Data

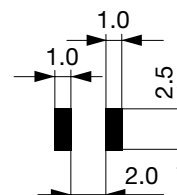
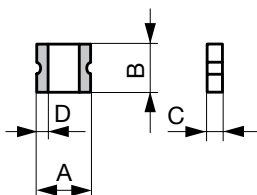
|                                 |                                         |
|---------------------------------|-----------------------------------------|
| V max                           | 6.0 - 30.0VDC                           |
| I max                           | 10 - 40A                                |
| I hold                          | 0.05 - 1.5A                             |
| Attachment                      | PCB,SMT                                 |
| Allowable Operation Temperature | -40 °C to 85 °C                         |
| Material: Terminals             | Electroless Nickel under Immersion Gold |
| Storage Conditions              | 0 °C to 40 °C, max. 70% r.h.            |
| Product Marking                 | I hold, Data Code                       |

|                              |                                                                  |
|------------------------------|------------------------------------------------------------------|
| Soldering Methods            | Reflow<br><a href="#">Soldering Profile</a>                      |
| Solderability                | 245 °C / 3 sec                                                   |
| Resistance to Soldering Heat | 260 °C / 10 sec                                                  |
| Passing Aging                | +85 °C, 1000 Hours -> +/- 5% Typical Resistance Change           |
| Humidity Aging               | +85 °C, 85% r.h., 1000 Hours -> +/- 5% Typical Resistance Change |
| Thermal Shock                | +85 °C to -40 °C, 20 Times -> +/- 10% Typical Resistance Change  |
| Vibration                    | MIL-STD-883C, Method 2007.1, Test Condition A                    |
| Resistance to Solvents       | MIL-STD-202, Methode 215                                         |

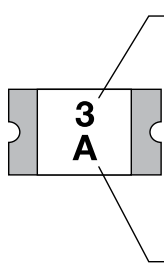
Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

### Dimension [mm]

3.2 mm



Part marking



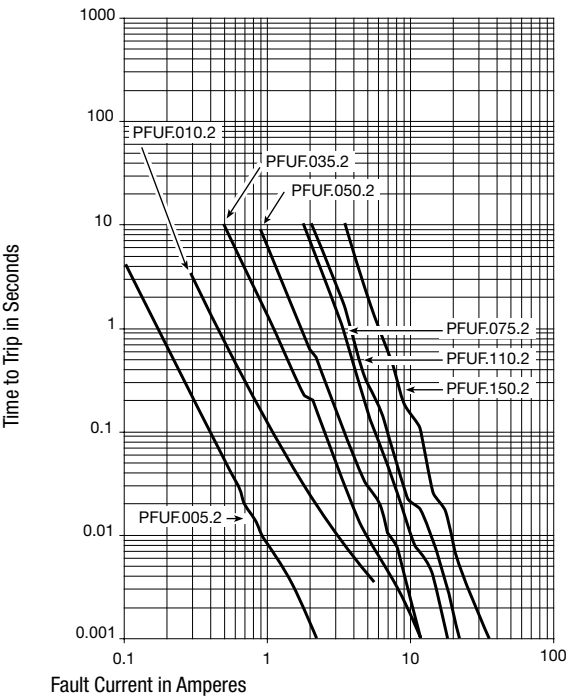
**Part Identification:**

PFUF.005 = 0  
PFUF.010 = 1  
PFUF.020 = 2  
PFUF.035 = 3  
PFUF.050 = 4  
PFUF.075 = 5  
PFUF.110 = 6  
PFUF.150 = 8

**Biweekly Date Code:**

Week 1 and 2 = A  
Week 51 and 52 = Z

Time-Current-Curves



Letter heights and Fonts

| A min [mm] | A max [mm] | B min [mm] | Insert depth | C min [mm] | C max [mm] | D min [mm] | Order Number |
|------------|------------|------------|--------------|------------|------------|------------|--------------|
| 3          | 3.43       | 2.35       | 2.8          | 0.8        | 1.1        | 0.3        | PFUF.005.2   |
| 3          | 3.43       | 2.35       | 2.8          | 0.8        | 1.1        | 0.3        | PFUF.010.2   |
| 3          | 3.43       | 2.35       | 2.8          | 0.8        | 1.1        | 0.3        | PFUF.020.2   |
| 3          | 3.43       | 2.35       | 2.8          | 0.55       | 0.85       | 0.3        | PFUF.035.2   |
| 3          | 3.43       | 2.35       | 2.8          | 0.55       | 0.85       | 0.3        | PFUF.050.2   |
| 3          | 3.43       | 2.35       | 2.8          | 0.55       | 0.85       | 0.3        | PFUF.075.2   |
| 3          | 3.43       | 2.35       | 2.8          | 0.55       | 0.85       | 0.3        | PFUF.110.2   |
| 3          | 3.43       | 2.35       | 2.8          | 0.4        | 0.85       | 0.3        | PFUF.150.2   |

Most Popular:

Availability for all products can be searched real-time:<http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

## Thermal Derating Chart Ihold [A]

| Order Number | -40 °C | -20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C | Order Number |
|--------------|--------|--------|------|-------|-------|-------|-------|-------|-------|--------------|
| PFUF.005.2   | 0.08   | 0.07   | 0.06 | 0.05  | 0.04  | 0.04  | 0.03  | 0.03  | 0.02  | PFUF.005.2   |
| PFUF.010.2   | 0.15   | 0.13   | 0.12 | 0.1   | 0.09  | 0.08  | 0.07  | 0.06  | 0.05  | PFUF.010.2   |
| PFUF.020.2   | 0.32   | 0.28   | 0.24 | 0.2   | 0.18  | 0.16  | 0.14  | 0.12  | 0.1   | PFUF.020.2   |
| PFUF.035.2   | 0.51   | 0.46   | 0.4  | 0.35  | 0.3   | 0.27  | 0.24  | 0.22  | 0.18  | PFUF.035.2   |
| PFUF.050.2   | 0.76   | 0.66   | 0.58 | 0.5   | 0.42  | 0.38  | 0.35  | 0.29  | 0.23  | PFUF.050.2   |
| PFUF.075.2   | 1.1    | 0.97   | 0.86 | 0.75  | 0.64  | 0.58  | 0.55  | 0.47  | 0.39  | PFUF.075.2   |
| PFUF.110.2   | 1.6    | 1.42   | 1.26 | 1.1   | 0.94  | 0.86  | 0.8   | 0.7   | 0.58  | PFUF.110.2   |
| PFUF.150.2   | 2.3    | 2.02   | 1.76 | 1.5   | 1.24  | 1.11  | 1     | 0.85  | 0.65  | PFUF.150.2   |

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## Electrical Characteristics at 23 °C

| V max [VDC] | I max [A] | I hold [A] | I trip [A] | R initial min [Ω] | R 1hour max [Ω] | Max Time to trip [A] | Max Time to Trip [s] | Tripped Power Dissipation [W] | Order Number |
|-------------|-----------|------------|------------|-------------------|-----------------|----------------------|----------------------|-------------------------------|--------------|
| 30.0        | 10        | 0.05       | 0.15       | 2.8               | 50              | 0.25                 | 1.5                  | 0.60                          | PFUF.005.2   |
| 30.0        | 10        | 0.1        | 0.3        | 0.8               | 15              | 0.5                  | 0.6                  | 0.60                          | PFUF.010.2   |
| 30.0        | 10        | 0.2        | 0.4        | 0.4               | 5               | 8                    | 0.02                 | 0.60                          | PFUF.020.2   |
| 6.0         | 40        | 0.35       | 0.75       | 0.2               | 1.3             | 8                    | 0.2                  | 0.60                          | PFUF.035.2   |
| 13.2        | 40        | 0.5        | 1          | 0.18              | 0.9             | 8                    | 0.1                  | 0.60                          | PFUF.050.2   |
| 6.0         | 40        | 0.75       | 1.5        | 0.07              | 0.45            | 8                    | 0.1                  | 0.60                          | PFUF.075.2   |
| 6.0         | 40        | 1.1        | 2.2        | 0.05              | 0.21            | 5                    | 1                    | 0.60                          | PFUF.110.2   |
| 6.0         | 40        | 1.5        | 3          | 0.03              | 0.11            | 5                    | 5                    | 0.60                          | PFUF.150.2   |

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**Packaging Unit** Blister Tape 18 cm Reel (3000 pcs.)