

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Schurter](#)

[PFNF.012.2](#)

For any questions, you can email us directly:

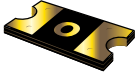
sales@integrated-circuit.com

Resettable Fuses

www.schurter.com/PG01_1

PFINF

Surface Mount Fuse, PTC, 1206 footprint, 3.2 x 1.6 mm, 30 VDC



6.0 - 30.0VDC · 0.12 - 2A



Description

- Directly solderable on printed circuit boards

Standards

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

Approvals

- UL File Number: E172175

Applications

- USB port protection
- PC motherboards
- PDA's / Digital Cameras
- Game console port protection

References

[Packaging Details](#)

Weblinks

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

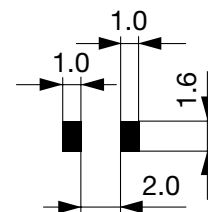
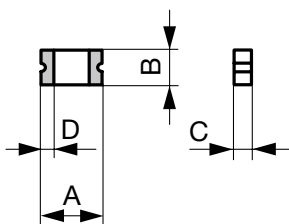
Technical Data

V max	6.0 - 30.0VDC
I _{max}	10 - 100A
I hold	0.12 - 2A
Attachment	PCB,SMT
Allowable Operation Temp.	-40°C to 85°C
Material: Terminals	Electroless Nickel under Immerion Gold
Weight	0.011 g
Storage Conditions	0°C to 40°C, max. 70% r.h.
Product Marking	I hold

Soldering Methods	Reflow Soldering Profile
Solderability	245°C / 3sec
Resistance to Soldering Heat	260°C / 10sec
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

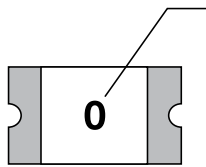
Dimension

3.2 mm



Soldering pads

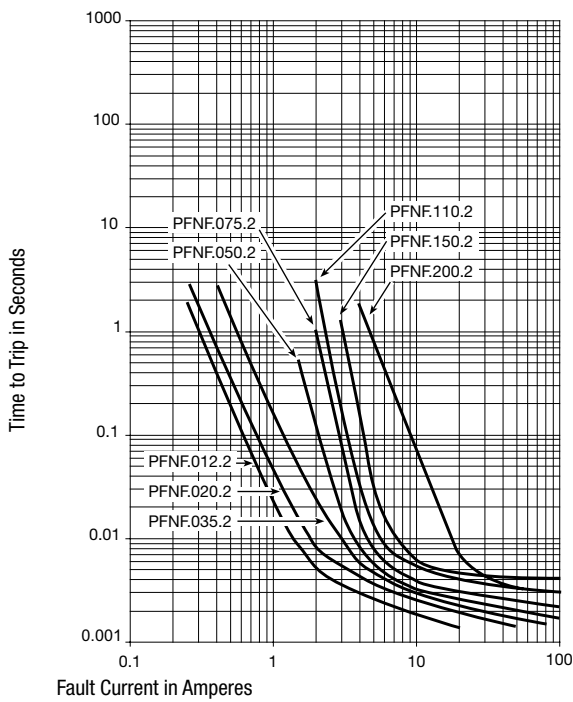
Part marking



Part Identification:

- PFNF.012 = 0
- PFNF.020 = 2
- PFNF.035 = 3
- PFNF.050 = 4
- PFNF.075 = 5
- PFNF.110 = 6
- PFNF.150 = 8
- PFNF.200 = A

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	3.4	1.4	1.8	0.7	1.1	0.25	PFNF.012.2
3	3.4	1.4	1.8	0.48	0.85	0.25	PFNF.020.2
3	3.4	1.4	1.8	0.48	0.85	0.25	PFNF.035.2
3	3.4	1.4	1.8	0.48	0.85	0.25	PFNF.050.2
3	3.4	1.4	1.8	0.4	0.7	0.25	PFNF.075.2
3	3.4	1.4	1.8	0.4	0.7	0.25	PFNF.110.2
3	3.4	1.4	1.8	0.4	0.7	0.25	PFNF.150.2
3	3.4	1.4	1.8	0.7	1.1	0.25	PFNF.200.2

Most Popular.

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

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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
PFNF.012.2	0.19	0.17	0.15	0.12	0.11	0.1	0.09	0.08	0.07	PFNF.012.2
PFNF.020.2	0.3	0.27	0.24	0.2	0.18	0.16	0.14	0.12	0.11	PFNF.020.2
PFNF.035.2	0.51	0.46	0.4	0.35	0.3	0.27	0.24	0.22	0.18	PFNF.035.2
PFNF.050.2	0.76	0.68	0.59	0.5	0.44	0.4	0.35	0.32	0.26	PFNF.050.2
PFNF.075.2	1.11	1	0.85	0.75	0.67	0.61	0.52	0.5	0.42	PFNF.075.2
PFNF.110.2	1.64	1.46	1.3	1.1	0.92	0.83	0.8	0.65	0.52	PFNF.110.2
PFNF.150.2	2.2	1.99	1.77	1.5	1.34	1.23	1.1	1.01	0.84	PFNF.150.2
PFNF.200.2	2.88	2.61	2.28	2	1.8	1.66	1.51	1.39	1.19	PFNF.200.2

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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	0.12	0.29	1.35	8.5	1	0.2	0.40	PFNF.012.2
24.0	10	0.2	0.46	0.6	2.6	1	0.6	0.60	PFNF.020.2
6.0	100	0.35	0.75	0.3	1.2	8	0.1	0.60	PFNF.035.2
13.2	100	0.5	1	0.15	0.7	8	0.1	0.40	PFNF.050.2
6.0	100	0.75	1.5	0.1	0.4	8	0.1	0.40	PFNF.075.2
6.0	100	1.1	2.2	0.06	0.2	8	0.3	0.60	PFNF.110.2
6.0	100	1.5	3	0.03	0.13	8	1	0.60	PFNF.150.2
6.0	100	2	4	0.02	0.085	8	1	0.70	PFNF.200.2

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Packaging Unit

Blister Tape 18 cm Reel (3000 pcs.)