

PFNF



1206 footprint · 6.0 - 30.0 VDC · 0.12 - 1.5 A



Approvals

- UL File Number: E172175

Applications

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

References

[General Product Information](#)
[Time-Current Curves](#) see last page

[Packaging Details](#)

Weblinks

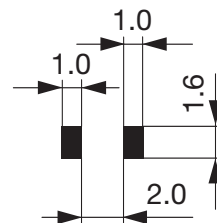
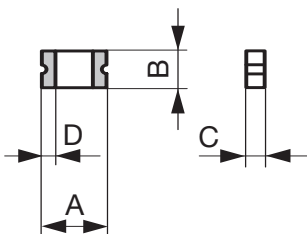
[Approvals: http://www.schurter.com/approvals](http://www.schurter.com/approvals)
[RoHS: http://www.schurter.com/rohs](http://www.schurter.com/rohs)

Technical Data

V max [VDC]	6.0 - 30.0 VDC
I max [A]	10 - 100 A
I hold [A]	0.12 - 1.5 A
Fastening	PCB,SMT
Allowable operation temp.	-40 °C to 85 °C
Material: Terminals	Electroless Nickel under Immerion Gold
Weight	0.006 g
Stock Conditions	0 °C to 40 °C, max. 70% r.h.

Soldering Methods	Reflow
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

Dimensions

Length  3.2 mm

Solder pads

PFNF

Dimensions

Order Number	A min [mm]	A max [mm]	B min [mm]	B max [mm]	C min [mm]	C max [mm]	D min [mm]
PFNF.012.2	3	3.4	1.4	1.8	0.7	1.1	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	0.48	0.85	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	0.4	0.7	0.25

Thermal Derating Chart I_{hold} / I_{trip} [A]

Order Number	-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C
PFNF.012.2	0.19	0.17	0.15	0.12 / 0.29	0.11	0.1	0.09	0.08	0.07
PFNF.020.2	0.3	0.27	0.24	0.2 / 0.46	0.18	0.16	0.14	0.12	0.11
PFNF.035.2	0.51	0.46	0.4	0.35 / 0.75	0.3	0.27	0.24	0.22	0.18
PFNF.050.2	0.76	0.68	0.59	0.5 / 1	0.44	0.4	0.35	0.32	0.26
PFNF.075.2	1.11	1	0.85	0.75 / 1.5	0.67	0.61	0.52	0.5	0.42
PFNF.110.2	1.64	1.46	1.3	1.1 / 1.8	0.92	0.83	0.8	0.65	0.52
PFNF.150.2	2.2	1.99	1.77	1.5 / 3	1.34	1.23	1.1	1.01	0.84

Electrical Characteristics

Order Number	V max [VDC]	I max [A]	I hold [A]	I trip [A]	R initial min [mΩ]	R 1 hour max [Ω]	Max Time to trip [A]	Max Time to Trip [s]	Tripped Power Dissipation [W]
PFNF.012.2	30.0	10	0.12	0.29	1.35	6	1	0.2	0.40
PFNF.020.2	24.0	10	0.2	0.46	0.6	2.6	1	0.6	0.60
PFNF.035.2	6.0	100	0.35	0.75	0.3	1.2	8	0.1	0.60
PFNF.050.2	13.2	100	0.5	1	0.15	0.7	8	0.1	0.40
PFNF.075.2	6.0	100	0.75	1.5	0.1	0.4	8	0.1	0.40
PFNF.110.2	6.0	100	1.1	1.8	0.06	0.2	8	0.1	0.60
PFNF.150.2	6.0	100	1.5	3	0.03	0.13	8	0.3	0.60

Packaging Unit

Blister Tape 18 cm Reel (3000 pcs.)

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