



PCB Filters FN 402

Low Cost PCB Filter

SCHAFFNER
energy efficiency and reliability



- Rated currents from 0.5 to 6.5A
- Compact PCB-mountable design
- Very low profile
- Optional medical versions (B type)

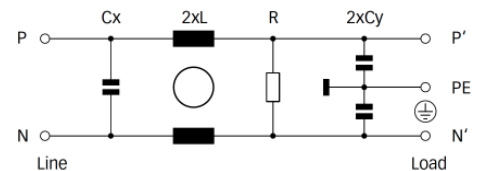
Approvals



Technical specifications

Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	0.5 to 6.5 A @ 40°C max.
High potential test voltage:	P -> PE 2000 VAC for 2 sec (standard types)
	P -> PE 2500 VAC for 2 sec (B types)
	P -> N 760 VAC for 2 sec
Temperature range (operation and storage):	-25 °C to +100 °C (25/100/21)
Design corresponding to:	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
Flammability corresponding to:	UL 94V-0
MTBF @ 40°C/230V (Mil-HB-217F):	1,900,000 hours

Typical electrical schematic



The FN 402 PCB filter is a single-phase filter designed for easy and fast PCB-mounting. Choosing the FN 402 product line brings you the rapid availability of a standard filter associated with the necessary safety acceptance. Standard PCB single-phase filters are a practical solution helping you to pass EMI system approval in a short time. A selection on amperage ratings and medical types are designed to offer you the desired standard product.

Features and benefits

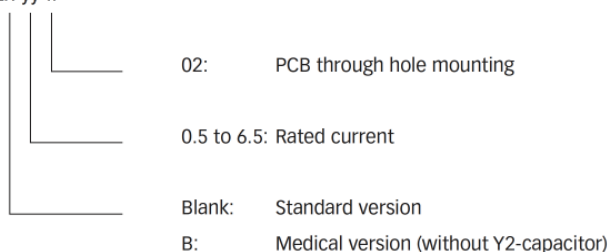
- Good conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior.
- PCB through hole mounting.
- Low cost low profile.
- Custom specific versions on request.

Typical applications

- Electrical and electronic equipment
- Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment
- Medical equipment

* Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

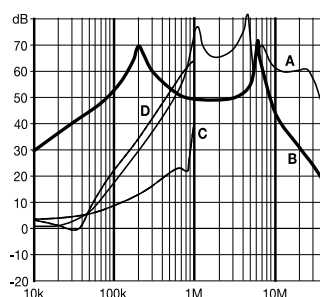
FN 402x-yy-..



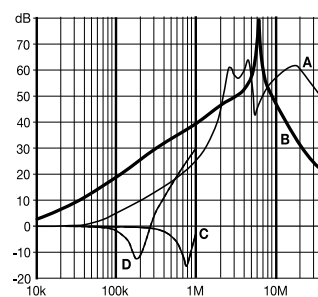
For example: FN 402-0.5-02, FN 402B-6.5-02

Per CISPR 17; A = 50Ω/50Ω sym; B = 50Ω/50Ω asym; C = 0.1Ω/100Ω sym; D = 100Ω/0.1Ω sym

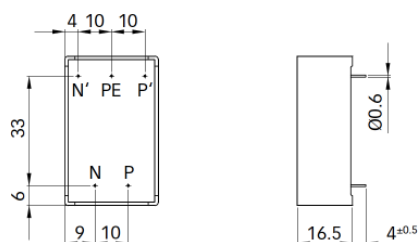
0.5 to 1.6A types



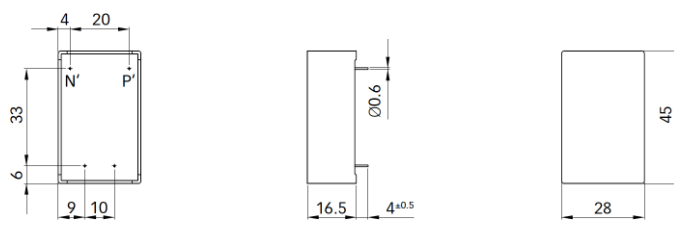
2.5 to 6.5A types



FN 402



FN 402B



Tolerances according: ISO 2768-m / EN 22768-m

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