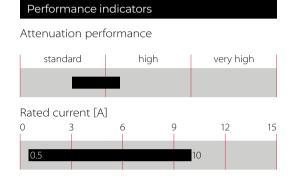


PCB-mounting filter



- Rated currents from 0.5 to 10 A
- Compact PCB-mountable design
- Low profile





Technical Specifications

Maximum continuous operating voltage	250 VAC, 50/60 Hz
Nominal operating voltage	230 VAC
Rated currents	0.5 to 10 A @ 40°C
Operating frequency	DC to 400 Hz
High potential test voltage	P -> PE 2000 VAC for 2 sec P -> N 760 VAC for 2 sec
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Flammability corresponding to	UL 94 V-0
Design corresponding to	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
MTBF (Mil-HB-217F)	>1,600,000 h @ 40°C/230 V

Approvals & Compliances









The FN 405 PCB filter is a single-phase filter designed for easy and fast PCB-mounting. Choosing the FN 405 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 are designed to offer you the desired standard product.

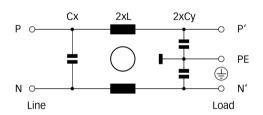
Features and Benefits

- Good conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- PCB through hole mounting
- Low 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

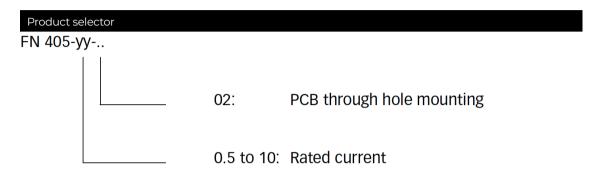
Typical electrical schematic



Filter Selection Table

Filter	Rated current	Leakage current*	Inductance**	Capacitance**		Input/Output	Weight
	@ 40°C (25°C)	@ 230 VAC/50 Hz	L	Cx	Су	connections	
	[A]	[μΑ]	[mH]	[nF]	[nF]	_	[g]
FN 405-0.5-02	0.5 (0.6)	373	24	15	2.2	-02	40
FN 405-1-02	1 (1.2)	373	10	15	2.2	-02	40
FN 405-3-02	3 (3.6)	373	2	15	2.2	-02	40
FN 405-6-02	6 (6.9)	373	0.8	15	2.2	-02	40
FN 405-10-02	10 (11.5)	373	0.5	15	2.2	-02	40

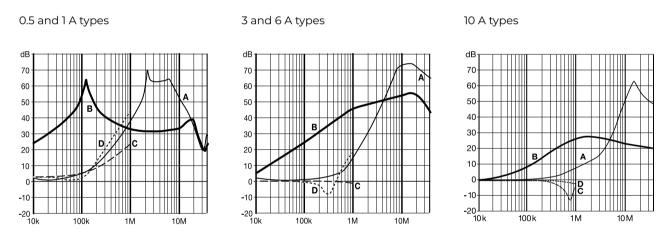
- * Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.
- ** Tolerances apply: Inductance: -30/+50%, Capacitance: $\pm 20\%$, Resistance: $\pm 10\%$



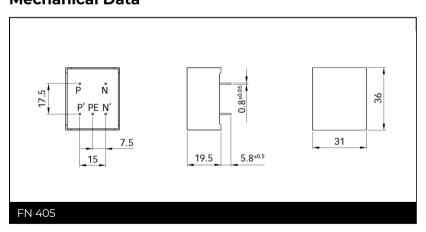
For example: FN 405-0.5-02, FN 405-10-02

Typical Filter Attenuation

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



Mechanical Data



All dimensions in mm; 1 inch = 25.4 mm Tolerances according: ISO 2768-m/EN 22768-m

Please visit www.schaffner.com to find more details on filter connectors.

Headquarters, Global Innovation and Development

Switzerland

Schaffner Group

Industrie Nord Nordstrasse 5

4542

Luterbach

+41 32 681 66 26

info@schaffner.com

To find your local partner within Schaffner's global network schaffner.com

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Sales and Application Centers

China

Schaffner EMC Ltd. Shanghai

T20-3 C No 565 Chuangye Road Pudong district

201201

Shanghai

+86 2138139500

cschina@schaffner.com

Sweden

Schaffner EMC AB

Östermalmstrorg 1

114 42

Stockholm

+46 8 5050 2425

swedensales@schaffner.com

Switzerland

Schaffner EMV AG

Industrie Nord

Nordstrasse 5

4542

Luterbach

+41 32 681 66 26

switzerlandsales@schaffner.com

Schaffner India Pvt. Ltd

Regus World Trade Centre

WTC 22nd Floor Unit No 2238 Brigade

Gateway Campus 26/1 Dr. Rajkumar Road

Malleshwaram (W)

560055

Bangalore

+91 8067935355

indiasales@schaffner.com

Schaffner EMC S.r.l.

Via Ticino, 30 20900

Monza (MB)

+39 335 120 44 32

italysales@schaffner.com

Japan

Schaffner EMC K.K.

ISM Sangenjaya 7F

1-32-12 Kamiuma Setagaya-ku

154-0011

Tokyo

+81 3 5712 3650

japansales@schaffner.com

Singapore

Schaffner EMC Pte Ltd.

Blk 3015A Ubi Road 1 #05-09 Kampong Ubi

Industrial Estate

408705

Singapore

+65 63773283

singaporesales@schaffner.com

Finland

Schaffner Oy

Lohjanharjuntie 1109

08500

Lohja

+ 358 50 468 72 84

finlandsales@schaffner.com

France

Schaffner EMC S.A.S.

16-20 Rue Louis Rameau

95875

Bezons

+33 1 34 34 30 60

francesales@schaffner.com

Germany

Schaffner Deutschland GmbH

Ohiostr. 8

76149

Karlsruhe

+49 721 56910

germanysales@schaffner.com

Thailand

Schaffner EMC Co. Ltd.

Sathorn Square Tower

Room 3780 37FL 98 North-Sathorn Rd Silom

Bangrak

10500

Bangkok

+66 621056397

thailandsales@schaffner.com

United Kingdom

Schaffner Ltd.

Suite 1 Oakmede Place

Terrace Road RG42 4JF

Binfield

+44 118 9770070

schaffner.uksales@te.com

United States

Schaffner EMC Inc.

52 Mayfield Avenue

Edison, New Jersey

+1 732 225 9533

usasales@schaffner.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Schaffner:

FN405-6-02 FN405-3-02 FN405-0.5-02 FN405-1-02 FN405-10-02