

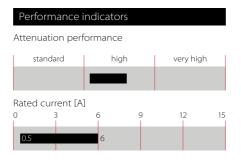
High Performance Two-stage PCB-mounting EMC Filter



	Rated currents from 0.5 to 6 A
High attenuation two-stage design	High attenuation two-stage design

PCB-mountable design





Technical specifications

Maximum continuous operating voltage
Operating frequency
Rated currents
High potential test voltage
Temperature range (operation and storage)

Design corresponding to Flammability corresponding to MTBF @ 40°C/230 V (Mil-HB-217F) 250 VAC, 50/60 Hz DC to 400 Hz 0.5 to 6 A @ 40°C max. P -> PE 2000 VAC for 2 sec P -> N 760 VAC for 2 sec -25°C to +100°C (25/100/21) UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939 UL 94 V-2 or better 675,000 hours



The FN 410 PCB filter is a single-phase, two-stage filter designed for easy and fast PCB-mounting. Choosing the FN 410 product line brings you the rapid availability of a standard high performance 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.

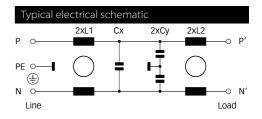
Features and benefits

Very good conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior

Two-stage single-phase design
PCB through hole mounting
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



Filter selection table

Filter*	Rated current	Leakage current*	Indu	ictance**	Capa	acitance**	Resistance**	Input/Output	Weight
	@ 40°C (25°C)	@ 230 VAC/50 Hz	L1	L2	Cx	Су	R	connections	
	[A]	[μA]	[mH]	[mH]	[nF]	[nF]	[kΩ]	1	[g]
FN 410-0.5-02	0.5 (0.6)	373	24	24	33	2.2		-02	85
FN 410-1-02	1 (1.2)	373	10	10	33	2.2		-02	85
FN 410-3-02	3 (3.6)	373	2	2	33	2.2		-02	85
FN 410-6-02	6 (6.9)	373	0.8	0.8	33	2.2		-02	85

* 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: ±20%, Resistance: ±10%

Product select	tor		
FN 410-y	∕ y-		
		02:	PCB through hole mounting
		0.5 to 6:	Rated current

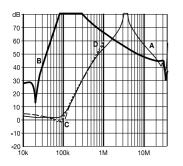
For example: FN 410-0.5-02, FN 410-6-02

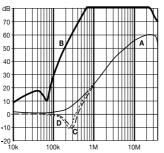
Typical filter attenuation

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

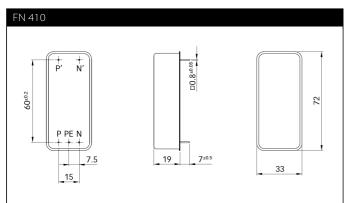
0.5 and 1 A types

3 and 6 A types





Mechanical data



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

Please visit <u>www.schaffner.com</u> to find more details on filter connectors.

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To find your local partner within Schaffner's global network: <u>www.schaffner.com</u>

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